



■ **COURSE DESCRIPTIONS**

An alphabetical listing
of courses offered at Pierce College,
by program of study.

ACCOUNTING (ACCNT)

101 (5) Survey of Accounting

Fundamental theories and concepts of accounting. Emphasizes applications of accounting information to various career programs, such as management, CIS, etc.

170 (5) Practical Accounting I

Prereq: MATH 51 or MATH 54 with a 2.0 grade or better or placement into MATH 60

Theory and practice of keeping adequate accounting records, and the use of various journals, ledgers and accounts. Offered through the accounting lab, self-paced, continuous entry.

171 (5) Practical Accounting II

Prereq: ACCNT 170 or BUS 210, with a 2.0 grade or better

Theory and practice of keeping adequate records, use of special journals, controlling accounts and subsidiary ledgers, periodic adjustments, closing procedures and preparation of financial statements. Offered through the accounting lab, self-paced, continuous entry.

172 (5) Practical Accounting III

Prereq: ACCNT 171 or BUS 210, with a grade of 2.0 or better

Corporate and partnership accounting. Cash flow statement, financial statement analysis and accounting principles. Offered through accounting lab, self-paced, continuous entry.

173 (3) Practical Cost Accounting

Prereq: ACCNT 172 or BUS 210, with a grade of 2.0 or better

An introduction to job order, process cost and standard cost accounting for the occupational student. Offered through the accounting lab, self-paced, continuous entry.

175 (2) Practical Accounting Simulations

Prereq: BUS 220

A course in doing accounting simulations. Course is intended for students in the Associate in Accounting degree program who elect to take Principles of Accounting classes instead of Practical Accounting. Also useful for student who want some hands-on practice in doing accounting work. Offered through the accounting lab, self-paced, continuous entry.

179 (5) Federal Income Tax Preparation

Federal income tax law and preparation with primary emphasis on individual income tax.

180 (5) Accounting Systems

Prereq: CIS 110 or 121, and BTECH 111, and ACCNT 171 or BUS 210 or permission of instructor

Introduction to accounting systems and computerized processing of accounting data. Students will learn about the flow of accounting data and documents in a business, the management and processing of the data in both a manual and computerized system and the preparation of output reports.

273 (5) Government Budget & Fund Accounting

Prereq: ACCNT 171 or BUS 210

Accounting practices for the growing not-for-profit segment of the economy (governmental units, educational institutions, hospitals, etc.) with a comparison to accounting for profit-making organizations.

275 (5) Payroll & Business Taxes

Prereq: ACCNT 170 or equivalent

Payroll preparations, payroll tax laws, accounting procedures and supplementary records. Preparation of required returns for federal and state payroll taxes and business taxes (includes manual and computerized payroll problems).

285 (5) Auditing & Advanced Analytical Techniques

Prereq: ACCNT 180 and CIS 136

A capstone class for majors in accounting. The course will utilize auditing techniques and concepts to solve problems in verifying the accuracy of accounting records. Computerized spreadsheet and audit programs will be utilized in solving problems in a team environment.

287 (3) Income Tax Practicum

Training in the preparation of the basic income tax forms and preparation of actual tax returns under the auspices of the VITA program.

ADULT BASIC EDUCATION (ABE)

Non-credit basic skill courses are offered for English, Math, Computers, Transitional, etc. See listing under PROGRAMS OF STUDY for more information.

ALCOHOLISM & DRUG ABUSE (ALCDA)

111 (5) Introduction to Chemical Dependency & Physiological Actions

An introduction to substance use, abuse, and dependency and the physiological actions of alcohol and other drugs. Covers etiological theories; effects of alcohol and other psychoactive drugs; and basic principles of prevention, intervention, and treatment. Includes discussion of the interaction of alcohol and/or other drugs and the human body: absorption, distribution, metabolism, mechanism of action, peripheral and central nervous system effects, interactive effects among chemicals, and physiological consequences of chronic high dosage use.

121 (3) Psychotropic Medications

An introductory course designed to help chemical dependency counselors and social service workers gain an understanding of the basic characteristics of psychotic, mood, and anxiety disorders; the use of psychotropic medications to treat these; and the interactive effects with alcohol and other drugs on psychotropic medications.

140 (5) Chemical Dependency and the Family

An overview of functional and dysfunctional families and the impact of chemical dependency and dysfunction on individuals and family systems. Course covers family therapy terms and theory, various types of abuse, Adult Children of Alcoholics (ACOA), birth order traits, co-dependency, parenting issues, treatment techniques and resources. Case analysis and application of concepts will be emphasized.

150 (3) Crisis Intervention

Theoretical and experiential introduction to working with people in crisis, stressful and emergency situations, and the utilization of constructive intervention techniques and resources. Suicide assessment is emphasized.

160 (3) Chemical Dependency Counseling & Assessment of the Adolescent

Prereq: ALCDA 111; ALCDA 170 recommended

Effects of chemical dependency on the developing adolescent. Assessment, intervention, prevention, counseling and treatment considerations will be overviewed.

170 (5) Counseling and Treatment of Chemical Dependency I – Individual

Prereq: Psych 110, ENGL 101 & minimum 2.0 in ALCDA 111 or instr. permission

Theoretical and experiential introduction of basic counseling skills for working with chemically dependent clients. Covers various counseling theories with emphasis on Motivational Interviewing and Stages of Change, treatment techniques, disclosure statements and resumes, professional boundaries and safety, and multicultural issues.

205 (1) HIV/AIDS, Air & Blood Borne Pathogens

Prereq: ALCDA 111 or instr. permission

A course providing HIV/AIDS, Hepatitis, Tuberculosis and Sexually Transmitted Disease (STD's) information and skills training for chemical dependency professionals, including risk assessment and risk reduction, epidemiological trends, universal criteria and universal precautions, clinical effects of infection, and related counseling and treatment issues.

210 (5) Case Management Through Record keeping

Prereq: ENGL 101 and must pass ALCDA 170 & ALCDA 215 with a minimum 2.0, or instructor permission

Focus is on learning a systematized, problem-oriented record keeping system and how charting facilitates management of a patient's case while insuring quality care. Covers clinical record keeping skills (DAP, SOAP, treatment plans, TARGET, etc.) patient charting requirements, and governing laws. ASAM Patient Placement Criteria and the DSM will be used for treatment placement and planning and for assessment diagnosis.

215 (5) Law & Ethics for Chemical Dependency Professionals

Prereq: Minimum 2.0 in ALCDA 170 or instructor permission

Overview of law and ethics pertaining to the chemical dependency field. Covers how laws are created and factors that affect this process; how to research laws; requirements for chemical dependency professionals; confidentiality and patient records; mandatory reporting; standards of professional conduct; the Uniform Disciplinary Act; codes of ethics; personal ethics; professional boundaries; self-disclosure; impact of personal values and prejudices; and ethical decision making. Includes application to a variety of settings and situations.

220 (1) Special Problems in Chemical Dependency

221 (2) Special Problems in Chemical Dependency

222 (3) Special Problems in Chemical Dependency

Prereq: Instructor permission

The study of variable problems within the context of the chemical dependency field.

225 (3) Alcohol/Drug Information School for Trainers

Prereq: ALCDA 111 and 120

This course satisfies all DASA requirements to be certified as an ADIS instructor. The current ADIS curriculum, laws, cultural issues and American Disabilities Act, required paperwork and teaching techniques are covered.

255 (3) Introduction to Co-Occurring Disorders of Chemical Abuse & Mental Illness (COD)

Prereq: ALCDA 111 and PSYCH 110 recommended

History of mental health and substance abuse treatment. Exploration of the basics of multidisciplinary treatment planning and case management, advocacy, COD terminology, ethics, funding sources, personal boundaries, involuntary commitments, and theories of mental illness and chemical dependency as these apply to the mentally ill chemically abusing population in a treatment setting.

270 (5) Counseling and Treatment II – Group

Prereq: Minimum 2.0 in ALCDA 111 & ALCDA 170 or instructor permission

Theoretical and experiential exploration of group leadership/membership skills emphasizing counseling approaches which are effective in treating the chemically dependent client. Includes a review of the theoretical foundations of group therapy and the knowledge competencies, skills and attitudes.

275 (3) Relapse Prevention

Prereq: ALCDA 170 with a grade of 2.0 or better and have completed or be currently enrolled in ALCDA 280 or instr. permission

An overview of what relapse prevention is, issues that negatively affect relapse-prone clients, plus skills and techniques for providing relapse prevention therapy.

280 (4) Supervised Field Experience in Chemical Dependency

Prereq: Registered counselor with WA Dept. of Health, 2.0 in ALCDA 205 and ALCDA 170

A career-related work experience within a DASA licensed facility enabling the student to apply vocational skills and knowledge to chemical dependency agency work while also accruing hours towards state certification. A minimum of 120 hours field work plus mandatory weekly seminar.

281 (4) Supervised Field Experience in Chemical Dependency

Prereq: Registered counselor with WA Dept. of Health, completion of ALCDA 280.

A career-related work experience within a DASA licensed facility enabling the student to apply vocational skills and knowledge to chemical dependency agency work while also accruing hours towards state certification. Minimum of 120 hours field work plus mandatory weekly seminar.

■ ANTHROPOLOGY (ANTHR)**104 (5) The American Mosaic: The Cultures of the United States GER-SS**

An exploration of the cultures of the U.S. from the perspective of ethnic identity, ethnic relations, gender, socio-economic class, religion and politics. Current anthropological methods and approaches will be employed to enhance the understanding of American history and contemporary socio-cultural lifeways.

105 (5) World Prehistory GER-SS

An archaeological interpretation of the lifeways of our human ancestors from 3 million years ago to the development of written records.

106 (5) Archaeology of Ancient Civilizations GER-SS

A course on the archaeology of ancient civilizations. Students compare ancient civilizations of the New World and the Old World to investigate how complex societies differ, in structure and internal dynamics, from simpler societies. They address the issue of how and why complex societies arose in some areas and not in others, as well as why complex societies collapse.

110 (5) Survey of Anthropology GER-SS

Introduction to the study of people: A survey of physical anthropology, archaeology, social anthropology and linguistics.

165 (2-5) Cross Cultural Studies – Participatory Research

A course designed for students who participate in experiential cross-cultural research abroad. Students examine host country's cultural values, social institutions, and significant contemporary issues facing that country. Students discuss differences between U.S. American and host country's cultures, and examine the host country in a global context.

166 (2) Cross-Cultural Studies – Teaching from Experience

A course designed for International Students who participate in an international education program with K-12 instructors working in association with Pierce College. Students describe home countries' values and social institutions, as well as significant contemporary issues facing those countries. Students discuss U.S. American and home cultures as situated within a global context.

167 (5) Cross Cultural Studies – Life and Culture

A course designed for students who participate in study abroad programs. Students examine host country's cultural values, social institutions, and significant contemporary issues facing that country. Students discuss differences between U.S. American and host country's cultures, and examine the host country in a global context.

201 (5) Prehistoric Mesoamerica GER-SS

An introduction to the indigenous civilizations of Mesoamerica. The cultures of the Aztecs, Maya, Olmecs and others are presented, including their social, intellectual and technical achievements.

210 (5) Physical Anthropology GER-NS (was GER-SS until 1986)

The study of human biology, evolution, paleontology, taxonomy, primatology, genetics and human variation.

220 (5) Social Anthropology GER-SS

The course explores the range of people's societies through various parts of the world. The course stresses the relevance of anthropological findings and methods of analysis to contemporary social issues.

225 (5) Fundamentals of Archaeology GER-SS

(Non-Quantitative version of ANTHR 230)
Exploration of the methods and theories of contemporary archaeology. (Students cannot receive credit for both ANTHR 225 & 230.)

230 (5) Introduction to Archaeology GER-SS/QS

(Quantitative version of ANTHR 225)
Prereq: Completion of MATH 095 or 098 or equivalent with a grade of 2.0 or better or test recommendation at level above MATH 98
A quantitative approach to the methods and theories of archaeology. (Students cannot receive credit for both ANTHR 230 & ANTHR 225.)

234 (3) Field Methods in Archaeology – Survey

Field methods in archaeology: finding archaeological sites and artifacts.

235 (3) Field Methods in Archaeology – Excavation

Field methods in archaeology: Excavating archaeological sites and artifacts.

236 (3) Field Methods in Archaeology – Preservation

Field methods in archaeology: Protecting archaeological sites and artifacts.

240 (5) Women in Cross Cultural Perspectives GER-SS

An introduction to the anthropology of gender. The course uses a global and comparative approach to explore the diversity of women's experiences and perspectives in relation to their bodies; in relation to men, children, and other women; and in relation to their culture and society.

250 (5) Native Peoples of North America GER-SS

Lifestyle and cultures of the native peoples (American Indians) of North America from prehistory until the present. The course is organized around the cultural concept and could include the Northeast, Southeast, Southwest, Plains and Northwest Coast areas.

260 (5) Northwest Coast Indians GER-SS

Analysis of life style, (kinship, marriage, religion, magic, economics, technology, and life cycle) of the Northwest Coast Indians, from prehistoric times until the present.

■ ART (ART)**100 (5) Introduction to Art GER-HM**

A general introduction to the visual arts, designed to develop within the student an insight and comprehension of the actual work of art. Topics of: perception, aesthetics, creativity, elements of design, principles of design, role of the media, and a general chronological survey of the visual arts are investigated.

101 (5) Design, Beginning GER-HM/Performance

A studio laboratory course which presents the elements of design as sources for artistic invention. Lectures, demonstrations and studio work deal with line, edge, shape, area, texture and value as vital elements in creative design.

102 (5) Design, Intermediate GER-HM/Performance

Prereq: ART 101 or instructor permission
A studio laboratory course which presents the elements of design as sources for artistic invention. Lectures, demonstrations and studio work deal with line, edge, shape, area, texture, and value. Particular emphasis will be placed on color as an element of creative design.

103 (5) Design, Advanced GER-HM/Performance

Prereq: ART 102 or instructor permission
A studio laboratory course which presents the elements of design as sources for artistic invention. Lectures, demonstrations and studio work deal with line, edge, shape, area, texture and value. Particular emphasis will be placed on color as an element of design. Application to a fine arts project will follow.

107 (5) Photography, Beginning GER-HM/Performance

A course in photography for the beginning to moderately advanced students covering basic knowledge from the equipment operation to aesthetic consideration in the photographic process.

108 (5) Photography, Intermediate GER-HM/Performance

A course in photography for the beginning to moderately advanced students covering basic knowledge from the equipment operation to aesthetic consideration in the photographic process.

109 (5) Photography, Advanced GER-HM/Performance

A course in photography for the beginning to moderately advanced student covering basic knowledge from the equipment operation to aesthetic considerations in the photographic process.

110 (5) Art Appreciation GER-HM

A general introduction to a chronological look at the development of Western Art from cave painting to the end of the 20th Century. This class is for the non-art major and there are no prerequisites.

111 (5) Drawing, Beginning GER-HM/Performance

Prereq: ART 111 or instructor permission

112 (5) Drawing, Intermediate GER-HM/Performance

Prereq: ART 111 or instructor permission

113 (5) Drawing, Advanced GER-HM/Performance

Prereq: ART 112 or instructor permission

A drawing sequence course to introduce the student to various approaches to drawing. The investigation of a variety of concepts, media, techniques and compositional considerations is employed to enable the student to gain as wide a knowledge of drawing as possible.

145 (5) History of Art – Contemporary GER-HM

A concise history of contemporary painting, sculpture, drawings, printmaking, photography, and mixed media from modern foundations through post-modern styles and related issues.

190 (5) Photography Workshop I GER-HM/Performance

Prereq: ART 107, 108, 109 and instructor permission

Photography for the moderately advanced student to achieve a refinement of photographic technique and skills.

191 (5) Photography Workshop II GER-HM/Performance

Prereq: ART 190 or instructor permission

Give the moderately advanced and advanced student the skill of free visual expression within the photographic process.

192 (5) Photography Workshop III GER-HM/Performance

Prereq: ART 191 or instructor permission

Photography for the advanced student to refine photographic techniques and skills for free visual expression within the photographic processes.

201 (5) Painting, Beginning
*GER-HM/Performance***202 (5) Painting, Intermediate**
Prereq: ART 201 or instructor permission

203 (5) Painting, Advanced
Prereq: ART 202 or instructor permission
A studio-laboratory course designed to develop within the student the desire to explore, to experiment and to evaluate painting. Painting offers basic instruction in the use of oil and acrylic media. Emphasis will be given to individual needs and interests.

204 (5) Watercolor, Beginning
GER-HM/Performance

This course will survey and explore, through "hands-on" painting, a wide variety of watercolor approaches. Students will develop the ability to express themselves through this fascinating medium using various brush techniques, vivid washes and texturing methods – with particular attention to nature (landscape) rendering. Students will also gain an historical overview of the watercolor medium and understand some of its basic applications in art.

275 (5) Painting Workshop, Beginning
GER-HM/Performance

Prereq: ART 203 or instructor permission
Painting workshop consists of lectures and studio application related to both traditional and contemporary painting. Students will be encouraged to explore painting medias and techniques. Emphasis on the relationship of media investigation and design concepts to painting.

276 (5) Painting Workshop, Intermediate
GER-HM/Performance

Prereq: ART 275 or instructor permission
Intermediate painting workshop consists of lectures and studio application related to both traditional and contemporary painting. Students will be encouraged to explore a diversity of painting medias and techniques. Continued emphasis on the relationship of media investigation and design concepts to painting.

277 (5) Painting Workshop, Advanced
GER-HM/Performance

Prereq: ART 276 or instructor permission
Advanced painting workshop consists of lectures and studio application related to both traditional and contemporary painting. Students will be expected to explore a diversity of painting medias and techniques. Increased emphasis on the relationship of media investigation and design concepts to painting.

■ ASTRONOMY (ASTR)

100 (5) Introduction to Astronomy (non-lab) *GER-NS*
An introduction to the history of astronomy and to scientific inquiry including basic concepts in observational astronomy, the solar system, stars, galaxies, and the origin of the universe. This is a non-lab course.

101 (5) Astronomy (lab) *GER-NS*
The methods and goals of scientific inquiry developed within the study of the planets, stars, galaxies, and the cosmos. A historical perspective with theory, laboratory exercises and direct observations. Lab included.

115 (5) Survey of Astrobiology
GER-NS

An introductory course that examines the interdisciplinary field of astrobiology. General principles of astronomy, chemistry, biology, and geology as applied toward the search for life on other planetary bodies. Special emphasis on current data acquisition from NASA and other sources. Lab included.

140 (5) Introduction of Stars, Galaxies & the Cosmos *GER-NS*

Methods and goals of scientific inquiry developed within the study of outer space including the life and death of stars, galaxies and clusters of galaxies, and cosmology including the Big Bang. Includes historical perspective, theories, laboratory exercises, and direct observations. Lab included.

150 (5) Introduction to the Solar System *GER-NS*

Methods and goals of scientific inquiry developed within the study of Solar system including the planets, Sun, moons, asteroids, and comets. Includes historical perspective, theories, laboratory exercises, and direct observations. Lab included.

■ ATMOSPHERIC SCIENCE (ATMOS)**101 (5) Introduction to Weather**
GER-NS

A study of Earth's atmosphere including the major elements and controls of weather and climate. Lab required.

■ BIOLOGY (BIOL)

Also see Microbiology

100 (5) Biology for Non-Science Majors *GER-NS*

Emphasis on the study of cells, genetics, ecology, diversity of life, and physiology in order to establish a foundation of understanding and respect of life. This course includes a laboratory.

101 (5) General Biology *GER-NS*

Prereq: Eligible for MATH 098 and ENGL 101. Prior CHEM 100 (or equivalent) recommended or concurrent enrollment in CHEM 100.
The science of life. Scientific methodology and evolution, ecological perspectives, current topics, cells, genetics, diversity of life and life physiology; reproduction and development. Lab included. For students preparing for allied health professions and for science majors.

118 (5) Human Anatomy & Physiology for Non-Science Majors *GER-NS*

A comprehensive study of the human body, its parts and how they work. A non-laboratory course appropriate for non-science majors or for students beginning study in life sciences.

120 (5) Human Anatomy & Physiology for Non-Science Majors with Lab *GER-NS*

A comprehensive study of the human body, its parts and how they work. A course appropriate for non-science majors or students beginning study in the life sciences. (Same as BIOL 118 only laboratory included.)

201 (5) Principles of Biology I: Cellular *GER-NS*

Prereq: CHEM 139 and 140 (which may be taken concurrently) and a grade of 3.0 or better in high school biology. Also, BIOL 101 with a grade of 2.0 or better is recommended. BIOL 201 does not have to be taken in sequence with BIOL 202 or 203.

Principles of operation of living cells including metabolism, genetics, differentiation and micro-evolution. For science majors. Laboratory included.

202 (5) Principles of Biology II: Zoology *GER-NS*

Prereq: CHEM 139 and 140 (which may be taken concurrently) and a grade of 3.0 or better in high school biology. BIOL 101 with a grade of 2.0 or better is recommended. BIOL 202 does not have to be taken in sequence with BIOL 201 or 203

Examination and comparisons of the major animal phyla with emphasis on development, physiology, anatomy, taxonomy, adaptations, animal evolution and behavior. Laboratory included.

203 (5) Principles of Biology III: Botany *GER-NS*

Prereq: CHEM 139 and 140 (which may be taken concurrently) and a grade of 3.0 or better in high school biology. BIOL 101 with a grade of 2.0 recommended. BIOL 201 does not have to be taken in sequence with BIOL 202 or 203.

Examination and comparison of the major non-animal eukaryotic kingdoms and divisions with emphasis on development, physiology, anatomy, taxonomy, plant evolution and adaptations. Laboratory included.

240 (4) Anatomy & Physiology I – Lecture *GER-NS*

Prereq: BIOL 101 with a grade of 2.0 or better and CHEM 100 with a grade of 2.0 or better or instructor permission and concurrent enrollment in BIOL 241 (lab component).

First course (lecture) of a two-quarter study of body structure and related physiology on cellular through system levels. Includes an in-depth study of cells and tissues; integumentary, skeletal, muscular, nervous and sensory systems. Laboratory component to be taken concurrently.

241 (2) Anatomy & Physiology I – Lab *GER-NS*

Prereq: Concurrent enrollment in BIOL 240 (Lecture Component)
Laboratory course to accompany BIOL 240. Includes in-depth practical laboratory study of cell physiology, microscopy, histology, human bone and bone marking identification, basic dissection techniques, cat and human musculature and nervous and sensory function test.

250 (4) Anatomy & Physiology II – Lecture *GER-NS*

Prereq: BIOL 240 and 241 or instructor permission and concurrent enrollment in BIOL 251.

Second course (lecture portion) of a two-quarter study of body structure and related physiology on cellular through system levels. Includes an in-depth study of body organization and physiological processes of cardiovascular lymphatic (includes immunology), respiratory, digestive (includes metabolism), excretory, reproductive and endocrine systems. Laboratory component to be taken concurrently.

251 (2) Anatomy & Physiology II – Lab *GER-NS*

Prereq: Concurrent enrollment in BIOL 250 (lecture component)
Laboratory course to accompany BIOL 250. Includes in-depth practical laboratory experience in the cardiovascular system of the cat and human, human hematology, urinalysis, immunology, respiratory, digestive (including chemistry) and reproductive systems.

■ BUSINESS (BUS)**101 (5) Business & Society** *GER-SS*

Basic background in general fields of business. An examination of the nature of for-profit and not-for-profit organizations in a free market economy. An overview of marketing, management, finance, production, economics, information systems, and international commerce.

103 (3) Computational Mathematics

Prereq: MATH 51 or MATH 54, or placement into MATH 60
Covers fundamental math relationships, percentages, merchandising and banking procedures and the metric system. Offered through the accounting lab, self-paced, continuous entry. Students cannot receive credit for both BUS 103 and BUS 107.

105 (5) Business English I

Prereq: Grade of 2.0 or better in ENGL 098 or equivalent or placement recommendation of ENGL 099
A course designed to strengthen the student's writing skills through the study of grammar, sentence structure, paragraph development, and punctuation. The student will enhance his/her business vocabulary while learning to compose clear and concise business documents.

106 (3) Business English II

Prereq: BUS 105 or ENGL 101 with a grade of 2.0 or better
Further study and practice with the writing process to create effective business memoranda, letters, and short reports. The student will continue to build a strong business vocabulary and fluency with punctuation rules.

107 (5) Business Mathematics

Prereq: MATH 51 or MATH 54 or placement in MATH 60.
Mathematics applications in banking, merchandising, inventory, depreciation and promissory notes. Introduction to simple statistics and the metric system. Offered through the accounting lab, self-paced, continuous entry. Students cannot receive credit for both BUS 107 and BUS 103.

125 (5) Introduction to Business

Offered through Extended Learning only
Prereq: GED or High School Completion
Basic background in general fields of business. An examination of the nature of for-profit and not-for-profit organizations in the free market economy. An overview of marketing, management, finance, production, economics, information systems and international commerce.

135 (5) Introduction to E-commerce

An introduction to the elements and issues of e-commerce. Topics include creating marketing strategies, choosing software and hardware, regulation issues, financial management and site design.

210 (5) Principles of Financial Accounting I

Prereq: MATH 98

First accounting course required of students transferring to a four-year school to obtain a bachelor's degree in business administration. Introduction to basic accounting concepts and procedures. Primary emphasis on the balance sheet and income statements in a single proprietorship.

215 (3) International Business Communication

Prereq: Grade of 2.0 or better in BUS 105, ENGL 099 or equivalent or placement recommendation of ENGL 101

This class concentrates on use of a global perspective in oral and written communications. It deals with communicating abroad, as well as with cultural aspects of our northwest community. It recognizes the need for sensitivity to others differences and likenesses. The class will help prepare students to communicate within the ever-changing and shrinking world.

220 (5) Principles of Financial Accounting II

Prereq: BUS 210

Second accounting course typically required of students transferring to a four-year school to obtain a bachelor's degree in Business Administration. Covers partnerships, bonds, corporations, cash flow statements and financial statement analysis.

230 (5) Principles of Managerial Accounting

Prereq: BUS 210

An introduction into the field of managerial accounting. Survey of process and job order costs, budgeting, cash planning, capital budgeting, present value and other topics.

240 (5) Human Relations in the Workplace GER-SS

This course considers how the needs of business or other formal organizations interact with individual needs, leadership styles, formal organizational policies and procedures, and general cultural patterns to determine how human beings act in work situations.

245 (5) Global Business: Introduction and Essentials

This is designed to be the first course for the student who is interested in pursuing the study of international trade and culture.

250 (5) Business Communications GER-CM

Prereq: Grade of 2.0 or better in BUS 105 or ENGL 101 or instructor permission.

Theory and practice in composing, evaluating, and analyzing written and oral business communications. Emphasizes effective writing of business letters and reports, the psychology of business writing, methods of research and oral reports.

279 (5) Personal Finance & Money Management

Offered through Military sites only.

A practical course in managing personal finances. Course includes budgeting, home ownership, Income tax, Investments, Insurance, wills and trusts.

BUSINESS INFORMATION TECHNOLOGY (BTECH)**085 (2) Keyboarding for the Computer**

Offered through Extended Learning only

Designed to teach the alphabet, symbol and number keys by touch to improve keyboarding speed and application.

104 (3) Dvorak Keyboarding

Students will work with a DVORAK Internet Web site to learn to key the alphabet and common punctuation by touch using one-handed keyboarding. Speed and accuracy will be developed through proper keyboarding technique and practice. These keyboarding skills will then be applied to create memorandums, business letters and reports. Recommended for students with any physical disability of the hands.

111 (3) Keyboarding

Students work with a computer keyboarding program learning to key the alphabet by touch. Optimum speed and accuracy are encouraged through proper keyboarding technique and practice. These keyboarding skills are applied to create basic letters, memos and reports.

112 (2) Keyboard Skillbuilding I

Prereq: BTECH 111 with grade of 2.0 or better, or keyboarding skill at 20 wpm or higher or instructor permission.

Emphasis on improving keyboarding skills with a computer program that focuses on technique, speed and accuracy through planned drill and practice exercises.

113 (2) Keyboard Skillbuilding II

Prereq: BTECH 112 with grade of 2.0 or better

Focuses on improving keyboarding skills from BTECH 112 with a computer program that allows student to continue building speed and accuracy through drill and practice.

115a (1) Business Keyboarding**115b (1) Business Keyboarding**

Prereq: BTECH 115a with grade of at least 2.0, or touch typing at 15 wpm, or instructor permission

Students use a computer keyboarding program to learn to keyboard by touch: (A) Key the Alphabet by Touch; (B) Key Number and Symbols by Touch.

116A-D (1) Keyboard Skill Development

Prereq: For BTECH 116A-BTECH 115A with grade of at least 2.0, or touch typing at 15 wpm, or instructor permission. For BTECH 116B-D - BTECH 116A with grade of at least 2.0 or touch typing at 20 wpm, or instr. permission

Four one-credit courses that assist students with continuous development of keyboard speed, accuracy and technique: (A) Alphabet and technique improvement; (B) Alphanumeric and technique improvement; (C) Alphanumeric improvement; and (D) Further alphanumeric improvement

117a (1) Business Document Formatting

Prereq: BTECH 115a with grade of at least 2.0 or touch typing at 15 wpm, or instructor permission

117b (1) Business Document Formatting

Prereq: BTECH 117a or instructor permission

Use word processing software to create basic and advanced business documents: (A) Format Basic Business Documents; (B) Format Advanced Business Documents

118A-B (1) PC Operating System

Prereq: BTECH 115 A & B with a grade of 2.0 or better or type by touch at 15 wpm or instructor permission

Operating system fundamentals for the PC. Topics include the following: (A) Navigating & Customizing the Operating System; (B) Managing Files & Using Help; and (C) Using the Internet and Basic Applications.

120 (3) Introduction to Windows

Prereq: BTECH 111 with a grade of 2.0 or type by touch at 15 wpm or instructor permission

Fundamentals of using the Windows operating system. Topics include management of files, documents, and folders and use of the control panel to customize the computer and the Windows desktop.

135 (3) Electronic 10-Key Calculator

Prereq: BUS 107 or BUS 103 recommended.

Use of the numeric keypad on the computer as well as the electronic 10-key calculator for solving office problems with an emphasis on 10-key speed.

145 (5) Records & Database Management

Prereq: BTECH 120, type by touch at 20 wpm or instructor permission

Principles and procedures for records management including storage and retrieval using manual and computer database systems. Includes alphabetic, subject, numeric and geographic storage methods and control of records.

149 (2) Introduction to the Medical Office

An interpersonal networking course for medical office students including discussion, guest speakers, and assignments related to topics such as the medical environment, medical staff, medical ethics and law, and the healthcare-related job market.

150 (5) Medical Terminology I

Fundamentals of medical terminology, including prefixes, suffixes, root words, and basic rules, upon which the student will build a medical vocabulary. Includes basic anatomy and physiology for the medical office worker.

151 (5) Medical Terminology II

(formerly Adv. Medical Terminology)

Prereq: Grade of 2.0 or better in BTECH 150

A continuation of BTECH 150 that builds on the student's medical vocabulary by learning advanced terminology and body systems. Includes basic anatomy and physiology for the medical office worker.

200 A-E (1) Microsoft Word

Prereq: For BTECH 200A - BTECH 118A & B with grade of at least 2.0, touch typing at 25 wpm, instructor permission. For BTECH 200B-E - BTECH 200A or instructor permission.

Students can work through all levels of Microsoft Word features: (A) Prepare & Edit Documents; (B) Enhance & Customize Documents; (C) Create Tables & Merge Documents; (D) Use Macros & Styles; and (E) Prepare & Protect Shared Documents.

201 (5) Professional Office Applications I

Prereq: Grade of 2.0 in BTECH 120, touch typing at 30 wpm, or instructor permission

Introduces student to essential features of word processing, spreadsheets and personal information manager software. Word processing features include document and paragraph editing, text formatting, tabs and tables, use of graphics and insertion of headers/footers. Spreadsheet features include manipulation of worksheets, use of formulas, charts and enhanced formatting. Personal information management features may include e-mail, task, calendar and contact management.

202 (5) Professional Office Applications II

Prereq: Grade of 2.0 in BTECH 201 and BTECH 145, or instructor permission

Introduces student to major features of database management and presentation software. Database program features Includes the creation of tables, relationships, forms, queries, and reports. The student will also build creative presentations with graphics and sound.

203 (5) Professional Office Applications III

Prereq: Grade of 2.0 in BTECH 202 or instructor permission

Enhances student's skill with advanced features of word processing, spreadsheet, database, and presentation software. Student will work with the integration of these applications in an online environment.

205 (2) Office Procedures

Prereq: Type at 30 wpm; BTECH 120 or BTECH 118 A & B or instr. permission

A course for students entering the office profession to learn and practice necessary skills for today's office including telephone communications, mail handling, processing travel documents, time management, and use of organizational tools.

210 A-E (1) Microsoft Excel

Prereq: For BTECH 210A: BTECH 200A with at least a 2.0 or instr. permission. For BTECH 210B-E: BTECH 210A with at least a 2.0 or instr. permission.

Students can choose to work through one or more of these Excel features: (A) Prepare and Format Basic Worksheets; (B) Insert Formulas and Enhancements; (C) Create Charts and Diagrams; (D) Advanced Formatting and Functions; and (E) Interpret and Integrate Data.

220 A-E (1) Microsoft Access

Prereq: For BTECH 220A: BTECH 200A with at least a 2.0, or instructor permission. For BTECH 220B-E: BTECH 220A with at least a 2.0, or instructor permission

Students can choose to work through one or more of these Access topics: (A) Create and Modify a Database; (B) Create Queries and Forms; (C) Create Reports, Charts, and Web Pages; (D) Use Advanced Tables, Forms, Queries and Reports; and (E) Secure and Integrate Databases.

225 A-C (1) Microsoft PowerPoint

Prereq: For BTECH 225A: BTECH 200A with at least a 2.0, or instructor permission. For BTECH 225B-C: BTECH 225A with at least a 2.0, or instructor permission

Students can choose to work through one or more of these PowerPoint topics: A) Create and Modify a PowerPoint Presentation; (B) Format and Add Visual Elements; and (C) Customize and Share a Presentation.

226 A-C (1) Microsoft Outlook

Prereq: For BTECH 226A – BTECH 118A & B with grade of at least 2.0, touch typing at 25 wpm, instructor permission. For BTECH 226B-C – BTECH 226A or instructor permission.

Students can choose to work through one or more of these Outlook topics: (A) Using E-Mail and the Calendar; (B) Managing Tasks, Calendar, and the Inbox; and (C) Customizing and Integrating Outlook.

230 (5) Machine Transcription I

Prereq: Grade of 2.0 or better in BUS 106 and a word processing course, or instr. permission

Fundamentals of transcribing dictated letters, memos, and other documents using a computer and transcription equipment. Course provides an opportunity to apply business English skills along with formatting techniques and proofreading skills to produce "mailable" documents.

231 (5) Machine Transcription II

Prereq: BTECH 230 with a grade of 2.0 or better

Advanced transcribing techniques emphasizing increased speed and accuracy in the production of business documents. Students will be expected to produce finished documents applying proper business English skills and formatting techniques.

241 (5) Accounting for the Office Professional

Bookkeeping procedures (the accounting cycle including payroll) utilized by administrative office professionals.

245 (3) Cooperative Work Experience**246 (3) Cooperative Work Experience**

Prereq: Permission from Business Information Technology advisor

Emphasis on relating the skills and attitudes learned in college to the workplace. The students will work part-time in an office setting related to their chosen programs and discuss job-related issues with other students in an online environment.

248 (2) Business Information Technology Seminar 1

Prereq: Enrollment in a Business Information Technology program or instructor permission

Provides student with job search strategies, including preparation of resumes, cover letters, practice with interviewing skills, creating a professional appearance, and telephone techniques.

249 (2) Business Information Technology Seminar II

Prereq: Enrollment in an Business Information Technology program or instructor permission

A seminar course that emphasizes human relations skills such as leadership, assertiveness, handling of criticism, conflict resolution, office politics, and diversity in the workplace.

250 (5) Medical Forms

Prereq: Grade of 2.0 or better in BTECH 150, or instructor permission

Emphasis on the production of the many forms required for insurance billing, including: HCFA, UB-92, referrals and referral requests. Includes documentation guidelines, effective solutions for insurance claim disputes, posting of accounts receivable and report generation, financial, legal, and ethical issues of medical billing.

251 (5) Medical Transcription I

Prereq: Grades of 2.0 or better in OFFICE 151 and OFFICE 230, or instructor permission

A beginning medical transcription course designed to familiarize users with basic medical reports used in a health care facility, the related terminology, appropriate formats for transcribing reports, and grammar and punctuation rules specific to dictated medical records.

252 (5) Medical Transcription II

Prereq: BTECH 251 with a grade of 2.0 or better

Intensive practice in transcribing medical dictation. Students use an extensive list of standard and contemporary terms in different medical specialties while transcribing dictation dictated by actual physicians in realistic surroundings.

253 (5) Medical Office Procedures

Prereq: Grade of 2.0 or better in BTECH 150, or instructor permission

Basic procedures in the medical office with emphasis on the role of the administrative medical office professional including records management, bookkeeping, billing, collection procedures, and health insurance billing.

254 (5) CPT Coding (Current Procedural Terminology)

Prereq: Grade of 2.0 in BTECH 151

Basic procedural coding for medical office and hospital billing. Students will learn the American Medical Association's Current Procedural Terminology (CPT) coding system and how to legally and ethically apply the system to various healthcare settings.

255 (5) ICD-9-CM Coding (International Classification of Diseases, 9th Revision, Clinical Modification)

Prereq: Grade of 2.0 in BTECH 151

Basic diagnosis coding for medical office and hospital billing. Students will learn entry-level ICD-9-CM (International Classification of Diseases, 9th Revision, Clinical Modification) coding for healthcare facilities.

260 (5) Computer Applications for the Law Office

Prereq: BTECH 120, BTECH 201, or instructor permission

Tips and techniques for using software typically found in the law office. Students will learn to use templates, macros, and word processing features that are particularly applicable to the preparation of legal documents. Internet strategies, spreadsheets, litigation support, and time and billing computer applications are also taught.

BUSINESS MANAGEMENT (MNGT)**130 (3) Customer Service**

Introduction to customer service. Topics include customer behavior, customer assessment, effective communication, serving the customer in a diverse environment, and developing and maintaining a relationship with customers.

182 (5) Creative Sales

Survey of the multiple aspects of selling including understanding characteristics of the customer, buying motives, prospecting, approaching the customer, presenting/demonstrating the product, handling objections, closing the sale, and developing and maintaining a relationship with the customer.

186 (5) Professional Development

Provides practical skills and techniques for entering the world of professional employment. Participants will experience strategies for ongoing career planning as well as strategies to increase workplace effectiveness.

187 (3) Career Communication Skills

Participants will learn the essentials for professional communication through career skills strategies, oral presentations, individual projects and group experiences.

188 (2) Career Success Skills for Leaders

Prereq: MNGT 186 & MNGT 187

Participants problem-solve workplace challenges while implementing individual and group success strategies.

194 (5) Supervisory Training & Leadership Development

Principles and techniques of supervision, training and development of personnel. Topics include motivation, leadership, planning, organization and communication.

198 (3) Work Based Learning

Participants pursue an organized career path plan by obtaining work experience in their chosen career field.

275 (5) Introduction to Visual Promotion

Prereq: CIS 110

Provides the student with a working knowledge of planning, creating and implementing visual promotion including advertising, print media, visual display and special promotions.

282 (5) Marketing

A study of the business activities concerned with the flow of goods and services from producers to consumers.

283 (5) Principles of Supervision & Leadership

Principles and practices of management, supervision and leadership as applied to for-profit and not-for-profit organizations. Realistic case problems in business are used to help the student apply principles to contemporary management problems.

284 (5) Small Business Planning

Planning and organizing a small business to include developing a preliminary business plan.

293 (5) Retailing & Merchandising

Fundamentals of retail buying and the management of retail inventories. Topics are important for the contemporary store-level merchant who is responsible for space productivity, inventory turnover, and profitability.

295 (5) Human Resource Management

Principles, methods and procedures in human resource management including job analysis, description and classification, employee morale and motivation, labor turnover, selection and placement, rating and promotion and compensation in conjunction with current government regulations.

296 (5) Current Trends in Human Resources

Explores current human resource issues including local, state, and federal labor laws; effective recruitment and selection techniques using behaviorally-anchored structured interview format; training and development strategies using competency-based individual development plans; 360-degree performance review; and how to write employee policy manuals and job descriptions.

CHEMISTRY (CHEM)**100 (5) Basic Chemistry (non-lab) GER-NS**

Introductory course in chemistry for students intending to take CHEM 101 and 102. Discussion of basic chemical concepts including atomic structure, periodic properties, chemical bonding, and chemical nomenclature.

101 (5) Introduction to Inorganic Chemistry GER-NS

Prereq: CHEM 100, high school chemistry or instructor permission. MATH 095 or 098 or concurrent enrollment and recommended for ENGL 101 on placement tests.

An introduction to general chemistry for health professionals or as chemical background for further studies in chemistry. Topics include unit conversions, atomic structures, periodic properties, chemical bonds, basic stoichiometry, states of matter, solutions, equilibrium, acid/base chemistry and oxidation/reduction. Lab included.

102 (6) Introduction to Organic & Biochemistry GER-NS

Prereq: CHEM 101

Continuation of CHEM 101. The course includes an introduction to organic functional groups and a study of carbohydrates, optical isomerism, lipids, proteins, enzymes, nucleic acids, and metabolism. Lab included.

105 (5) Chemistry for Non-Scientists GER-NS

The relationship of basic chemical concepts to issues in modern society will be discussed. Intended for non-science majors.

119 (6) Chemistry for Veterinary Technicians

Prereq: First year standing in the Veterinary Technology Program

Features of atomic structure, chemical bonding, acid/base theory equilibrium as they apply to basic science. Lipids, proteins and carbohydrates will be discussed with special emphasis placed on metabolism. The importance of hormones and body fluids. Lab included.

139 (5) Preparation for General Chemistry (non-lab)

GER-NS, QS
Prereq: MATH 98 or equivalent with grade of 2.0 or better or placement test score above MATH 098.

Designed to introduce the science major student to mathematical and chemical principles needed for a successful experience in their science studies. Includes problem solving, graphs, calculator use, atomic structure, periodic properties, inorganic nomenclature, the mole, balancing equations and stoichiometry

140 (5) General Chemistry

GER-NS

Prereq: CHEM 139 and MATH 121 (which may be taken concurrently) or inst. permission

The first quarter of a three quarter sequence in general chemistry for science and engineering majors. The course covers measurements, significant figures, dimensional analysis, periodic properties, atomic structure, stoichiometry, thermochemistry and quantum theory. Lab included.

150 (5) General Chemistry

GER-NS

Prereq: CHEM 140 or instructor permission

The second quarter of a three quarter sequence in general chemistry for science and engineering majors. Course covers bonding theory, molecular structure, states of matter, chemical reactions in solution, solutions, kinetics and an introduction to the second law of thermodynamics. Lab included.

160 (5) General Chemistry

GER-NS

Prereq: CHEM 150 or instructor permission

The last quarter of a three quarter sequence in general chemistry for science and engineering majors. The course covers equilibrium, oxidation/reduction reactions, acids and bases, slightly soluble salts, entropy and free energy and electrochemistry. Lab included.

220 (6) Organic Chemistry I

Prereq: CHEM 150 or equivalent with a grade of 2.0 or better or instructor permission

The first quarter of a three-quarter sequence in organic chemistry for university transfer, designed for science majors, pre-medical, pre-dental and other pre-professional curricula. Structure, nomenclature, physical properties, reactions, and synthesis of the main types of organic compounds. Lab included.

221 (6) Organic Chemistry II

Prereq: CHEM 220 with a grade of 2.0 or better or instructor permission

The second quarter of a three-quarter sequence in organic chemistry for university transfer, designed for science majors, pre-medical, pre-dental and other pre-professional curricula. Further discussion of the properties and transformations of organic molecules. Lab included.

222 (6) Organic Chemistry III

Prereq: CHEM 221 With a grade of 2.0 or better or instructor permission

The third quarter of a three quarter sequence in organic chemistry for university transfer, science majors, pre-medical, pre-dental and other pre-professional curricula. Further discussion of the properties and transformations of organic molecules, including bio-molecules. Lab included.

CHINESE

See WORLD LANGUAGES.

COMPUTER (CMPTR)**104 (1) Beginning Keyboarding**

Develop touch control of the alphabetic keyboard and demonstrate proper keyboarding techniques. (Course only offered through the PierceWorks Program.)

105 (1) Windows, etc.

Basic introduction to the Windows operating system. Also learn file management and E-mail.

106 (2) MS Word Competency

Prereq: Windows, etc; or instructor permission
Basic Word usage; formatting, manipulating documents, tool usage, templates, headers and footers and more.

107 (1) Quality Results from the Web

Internet research and database usage. Learn search techniques, information retrieval and management, and evaluation of sources.

108 (1) PowerPoint Pizazz

Create and enhance professional presentations, including slide layouts, formatting, graphics, transitions and animation.

111 (1) Microsoft Excel, Beginning

Prereq: Intro to Windows or equivalent.

Learn to create, modify, save and print worksheets; create formulas; move and copy data; format cells, columns and the worksheet appearance.

112 (1) Microsoft Excel, Intermediate

Prereq: Introduction to Windows and Microsoft Excel Beginning or equivalent.

Learn to create, modify and format charts and graphs; add graphics and use drawing tools; sort information in a list using the Data Sort command.

115 (1) Microsoft Word, Beginning

Prereq: Intro to Windows 98 or equivalent.

Create, edit, save and print documents using Microsoft Word; apply character, paragraph and page formatting; set and modify tabs; create tables; use proofing tools.

116 (1) Microsoft Word, Intermediate

Prereq: Introduction to Windows or equivalent and Microsoft Word Beginning.

Create columns, sections, and tables; merge documents and data sources; use styles and templates; run and edit macros.

131 (1) Introduction to Personal Computers

Introduction to personal computer terminology, hardware components, and software; hands-on practice using the Windows operating system; word processing; spreadsheets; Internet browser software.

137 (1) Introduction to Windows

Learn to navigate within the Windows environment; customize the desktop; locate, create, and save files and file folders; share data between applications; use control panel to change properties and settings.

COMPUTER INFORMATION SYSTEMS (CIS)**080 (1) Computer Basics**

Offered through Extended Learning

Explores computer capabilities and how the computer can be adapted to individual and workplace needs.

103 (2) Online Learning: Getting Started

Prereq: Regular access to the Internet; familiarity with Web and E-Mail

Through an introductory online experience, the student will learn about how online courses work and the personal preparation required for successful learning online. Topics covered include technical preparation, navigating the online course environment, online relationships, and how online learning differs from face-to-face instruction. The class will help students identify when and how online learning is best incorporated in to their educational activities.

110 (3) Introduction to Microcomputer Business Applications

Prereq: Keyboarding proficiency of 35 wpm or better.

An abbreviated version of CIS 121 designed specifically for non-CIS/DDSGN majors. Introduction to the fundamentals of a computer, including the information processing cycle. Survey of computer technology, computer nomenclature, and the use of computers as productivity tools. Lab assignments using current microcomputer-based application programs allow the student to interact with computer technology, hardware, and Internet.

121 (5) Introduction to Computer Information Systems

Prereq: Keyboarding proficiency of 35 wpm or better

Introduction to the fundamentals of a computer, including the information processing cycle. Survey of computer technology, computer nomenclature, and the use of computers as productivity tools. Students will develop an understanding of personal computers and emphasize their use as both stand-alone and networked systems. Current microcomputer-based application programs and higher-level programming language exercises and lab assignments allow each student to interact with computer technology, hardware, Internet and concepts of common application programs.

122 (5) Structured Program Design

Prereq: CIS 121 (with a 2.0 or above); MATH 098 (with a 2.0 or above)

Introduction to the concepts of computer program analysis, design, and development using modern structured programming methodologies and techniques. Involves structure charts, pseudocode, and flowcharts. Common computer program techniques of documentation, testing and validation, and implementation using the systems development life cycle (SDLC) model, and lab assignments to allow the student to interact with computer technology, hardware and concepts.

123 (5) Introduction to Object Oriented Programming (OOP)

Prereq: CIS 122

Introduction to Object Oriented Programming (OOP). Application of the concepts of Inheritance, polymorphism, Interfaces and abstract classes. Addresses classes, objects and methods utilizing top down design, model-view-controller, and other maintainability/modularization/and reusability techniques. Techniques for effective program coding; testing and establishing error handling techniques.

130 (5) Microcomputer Applications

Prereq: CIS 110 or 121

Learn four of the most popular software applications used for word processing, spreadsheet, database management, and presentation purposes.

134 (5) Computer Operating Systems

Prereq: CIS 121 with a 2.0 grade or better

Introduction to the function and use of command line- and graphical user interface (GUI)-based microcomputer operating systems. A combination of classroom discussion and hands-on lab exercises provides practical knowledge and experience in various operating system features.

136 (3) Spreadsheet Applications

Prereq: CIS 110 or CIS 121 and MATH 098

The fundamental concepts of spreadsheets (electronic worksheets). Topics will include creation and manipulation of spreadsheets, conversion to charts and graphs, and creation of macros.

140 (5) Technical Support Practices and Procedures

Prereq: CIS 130, CIS 134 and CIS 150

Introduction to technical support practices and procedures. Discussion of the difference in the levels and roles of technical support, technical support organization and structure, user support services including individual and group training, and liability of support services. Learn escalation and forwarding of customer support requests for services, report processing, and automated help desk tools. Addresses implementation of hardware and software accommodations and accommodation strategies. Includes practices with technical support laboratory.

150 (5) Computer Installation and Troubleshooting

Prereq: CIS 121

An introduction to the installation and interfacing of computer hardware and software including a variety of computer components. Troubleshooting and correction of problems encountered in computer operation of both hardware and software.

155 (3 or 5) Special Topics in Information Systems Technology

Prereq: Instructor permission only

Detailed coverage of a selected computer topic of current interest. Sample topics may include computer languages, hardware, and software development strategies.

185 (5) Visual Basic Programming*Prereq: CIS 122*

Addresses Dot Net objects using unified modeling language; classes and applying objects within an assembly; web services concepts and Active Server Pages; complex window forms to interface within desktop applications using controls and events including menu and keyboard handling; Window Forms that access data from various back end databases and program threads.

201 (5) Computer Science I*GER-QS,NS*

Prereq: CIS 122 with a grade of 2.0 or better and MATH 98 or equivalent with a grade of 2.0 or better (or placement test score above Math 098) or instructor permission

An introduction to computer science using a high level language; problem solving and programming techniques; syntax and semantics through arrays, text files; programming projects (ACM CSI).

202 (5) Computer Science II*GER-QS,NS**Prereq: CIS 201*

Continuation of CIS 201: Algorithms, data structures, applications, computer systems, social implications (ACM CS2).

215 (5) Introduction to Web Programming*Prereq: CIS 121*

Addresses web forms utilizing HTML; dynamic client-side web forms that utilize JavaScript; server-side code that can receive, process, and return data from the client-side; relevant object models and creation of multiple forms to move data; web forms that utilize techniques such as cascading style sheets; separation of the presentation and application layers; error handling; Simple Object Access Protocol (SOAP) and Universal Discovery, Description, and Integration (UDDI).

216 (5) Web Services*Prereq: CIS 122 and 215*

Addresses web services framework issues such as HTTP, TCP/IP, XML, SOAP, WSDL, and UDDI; required development environment; projects that implement the individual pieces of web services; data types; perform exception handling; debugging utilizing the tools of the specific products; discovery of web services; state management; caching and application events.

217 (5) Server Side Web Development using C# or Java*Prereq: CIS 216*

Addresses web form components and web control fundamentals; web application creation, validation and rich controls using C# and Java; state management within a moderately complex application; tracing, logging, and error handling within an application; ADO.NET associated with datalist, datagrid, repeater, and other data access controls; access to/through files, streams, and email; component based programming and custom controls; caching and performance tuning.

230 (5) Network Operating Systems*Prereq: CIS 265 with a 2.0 grade or better*

Implementation of the network operating system environment. Analysis of protocols and sub protocols in workgroup and server-based topologies with emphasis on features, advantages, disadvantages, and security. Addresses architecture, implementation, installation, and maintenance of network operating system using UNIX/Linux. Practical application in a network laboratory.

250 (5) COBOL I*Prereq: CIS 122*

An introduction to the design and programming of elementary and intermediate structured programs in COBOL using programming tools such as pseudocode and hierarchy charts.

251 (5) COBOL II*Prereq: CIS 250*

The design and programming of intermediate and advanced structured COBOL programs with an emphasis on arrays, tables, file maintenance and advanced debugging aids.

260 (5) Database Management Systems*Prereq: CIS 122 and CIS 130*

Concepts and theory of database management systems (DBMS) including the analysis and design of relational database systems.

261 (5) SQL (Structured Query Language)*Prereq: CIS 122*

Introduction to Structured Query Language (SQL), the industry-standard language for storing, retrieving, displaying, and updating data in a relational database. Includes detailed coverage of the Oracle-specific PL/SQL procedural extension.

262 (5) Database Administration, Backup & Recovery*Prereq: CIS 260, CIS 261*

Learn the key tasks and functions required of a database administrator in a production environment. Gain experience creating and implementing a database, managing data, expanding the size of the database, implementing basic security and data integrity measures, and granting data access privileges to individual users.

263 (5) Database Performance Tuning & Network Administration*Prereq: CIS 262*

Project-oriented class with emphasis on system support, tuning, problem diagnosis, and problem resolution.

265 (5) Data Communications and Networks*Prereq: CIS 134 with a 2.0 grade or better*

An introduction to data communication and network terminology, operating concepts, network design, hardware and software. Reviews the Open System Interconnection (OSI) model as well as other major data communication models and the various specifications and standards for data communications hardware and software. Addresses the advantages and disadvantages of various network systems and their availability, flexibility and performance. Participate in the design of a data communications network.

266 (5) Local Area Networks*Prereq: CIS 265 with a grade of 2.0 or better*

Implementation of workgroup-based hardware and software components of Local Area Networks (LAN) systems. Covers installation and configuration of workstation, client operating system software and network hardware including media, topologies, access methods, and protocols. Reviews present and future LAN trends, alternatives, security, and planning strategies and LAN management considerations. Includes examination of LAN interconnection using bridges, routers, switches, and gateways as well as LAN segmentation, VLAN, and subnetting. Practical application in a network laboratory.

267 (5) Network Administration Practices & Procedures*Prereq: CIS 230 and CIS 266, each with a 2.0 grade or better*

Practices and procedures for installing and administering a network operating system software for a server-based centrally administered Local Area Network (LAN). Script generation, user/group security configuration/privileges, back-up and recovery operations, network resource allocation and control, troubleshooting, failure recovery, fault tolerance covered. Practical application in a tolerance covered. Practical application in a network laboratory.

269 (5) Advanced SQL Programming & Tuning*Prereq: CIS 261*

An advanced course in Structure Query Language (SQL). Develop script files, stored procedures, and PL/SQL units. Diagnose and tune for performance problems.

270 (5) C Programming Language*Prereq: CIS 122*

An introduction to C Programming Language including its development history and philosophy. Emphasis on programming.

271 (5) Introduction to C++*Prereq: CIS 122 and 270, MATH 098 with grade of 2.0 or better, or instructor permission.*

An introduction to the C++ programming language; problem-solving and programming techniques; syntax and semantics through arrays, text files; and programming projects to include its development history and philosophy. Emphasis on programming.

272 (5) Advanced C++ Programming*Prereq: CIS 271 and MATH 098 with grade of 2.0 or better, or instructor permission.*

Advanced C++ programming language, problem-solving and programming techniques; syntax and semantics through arrays, text files; and programming projects to include its development history and philosophy. Emphasis on programming.

280 (5) Systems Analysis & Design*Prereq: CIS 122 and CIS 130*

A systematic approach to defining needs, creating specifications, and designing information systems. Structured systems analysis and design techniques will be used to develop and document effective computer-based information systems group projects. Students will create and present project plans using currently available project management application software.

285 (5) Advanced Visual Basic*Prereq: CIS 122 and CIS 185*

An advanced course in the Visual Basic programming language. Develop Windows software within the systems development life cycle (SDLC) methodology. Covers arrays and controls, SQL, ActiveX controls, DLLs, data validation, animation, error-trapping, reporting, and security issues.

286 (5) Application Development*Prereq: CIS 122 and CIS 185*

Addresses component programming through the development of completed applications; availability, scalability, and secure enterprise system programming; clustering and server farms; enterprise caliber data objects, classes, and methods within an application; and effective error handling.

290 (5) Supervised Internship*Prereq: CIS/DDSGN majors in their final quarter before graduation*

Capstone course allows the student to gain relevant experience working in a local business environment. Requires 250 hours of supervised work including associated resume preparation, job interviews, and internship documentation.

COMPUTER NETWORK ENGINEERING (CNE)**101 (2) DOS for Network Users***Prereq: CIS 121 with a grade of at least 2.0*

Introduction to the use of the MS-DOS operating system in a Windows/Network environment. Develop an understanding of the interworkings of personal computer components. Interface with personal computer at the command-line level is emphasized.

110 (5) Basic Electronics*Prereq: CIS 121; ENGL 101; MATH 098 (or equivalent) with grades of 2.0 or better*

A beginning course in electronics emphasizing basic circuits, components, AC and DC sources, solid state devices and digital circuits and techniques.

210 (5) MicroProcessors*Prereq: CNE 110 with grade of at least 2.0*

Microcomputer/microprocessor basics, the 80XXX microprocessor family, introduction to assembly language programming, expanded programming, the program instruction set, and memory segmentation. Provides knowledge of specific terminology, facts, ways and means of dealing with classifications, categories, and principles of processors, motherboards, and memory.

218 (5) Managing a Windows 2000 Network Environment*Prereq: CNE 232 with a 2.0 grade or better*

Performance-based course designed around the job-related tasks a network professional must perform to implement, manage, and troubleshoot existing network and server environments based on the Microsoft Windows 2000 operating system. Tasks are generally performed in medium to large organizations, spanning two to 100 physical locations by using LANs, Intranets, and/or Internet.

220 (5) Networking Technologies

Prereq: CIS 121; ENGL 101; MATH 098 (or equivalent) with grade of at least 2.0 in all courses.

General introduction to current networking technology for local area networks (LANs), wide area networks (WANs), and the Internet. Focuses on contemporary network topologies, services, transmission media, and protocols. Discussion includes the Open Systems Interconnection (OSI) reference model and Institute of Electrical and Electronic Engineers (IEEE) standards.

230 (3) Computer & Network Operating Systems

Prereq: CNE 220 with a grade of at least 2.0

Introduction to the functions and operating methods of a variety of operating systems for stand-alone and network computing. Focus is on current industry standard systems of MS-DOS, Windows family, UNIX, and Novell. Proprietary and special purpose OS/NOS discussed in less detail.

231 (5) Implementing Windows Client Operating System

Prereq: CIS 266 with a 2.0 grade or better

This course is to provide individuals who are new to Microsoft Windows client operating system with the knowledge necessary to understand and identify the tasks involved in supporting Windows server products. This is an introductory course designed to provide an overview of networking concepts and how they are implemented in a Windows-based environment.

232 (5) Managing & Maintaining a Microsoft Windows Server

Prereq: CNE 231 with a 2.0 grade or better

Install and configure Windows on stand-alone and client computers in a workgroup or domain. Install and configure Windows Server to create File, Print, Web, and Terminal servers.

233 (5) Maintaining a Microsoft Windows Server Environment

Prereq: CNE 232 with a 2.0 grade or better

Performance-based course designed around the job-related tasks a support professional must perform in order to be proficient in a Microsoft networked server environment. Emphasis is based on remote connectivity and client-based services.

234 (5) Implementing a Microsoft Windows Server Network Infrastructure

Prereq: CNE 233 with a 2.0 grade or better

Professional support class for installation, configuration, management, and support of a network infrastructure using Microsoft Windows Server products.

235 (5) Implementing & Maintaining Microsoft Windows Server Network Infrastructure: Network Services

Prereq: CNE 233 with a 2.0 grade or better

Professional support class for installation, configuration, management and support of a network services using Microsoft Windows Server products.

236 (5) Planning & Maintaining a Windows Server Network Infrastructure

Prereq: CNE 233 with a 2.0 grade or better

Design a Microsoft Windows Server network infrastructure that supports required network applications. Solutions based on Dynamic Host Configuration Protocol (DHCP), Open Shortest Path First (OSPF), Routing Information Protocol (RIP), and Internet Group Management Protocol (IGMP) will be contrasted and evaluated for applicability.

237 (5) Planning, Implementing, & Maintaining a Microsoft Server Active Directory Infrastructure

Prereq: CNE 234 with a 2.0 grade or better

Install, configure, and administer Windows Active Directory directory services. Course also focuses on implementing Group Policy and performing those Group Policy-related tasks that are required to centrally manage users and computers.

238 (5) Designing Security for a Windows Network

Prereq: CNE 237 with a 2.0 grade or better

Design a security framework for small, medium, and enterprise networks by using Microsoft Windows technologies. Secure the specific areas of: Local Network Users; Remote Users and Offices; Private and Public Networks; and Partner Organizations.

239 (5) Update Support Skills from Windows NT to Windows 2000

Prereq: CNE 272 with a 2.0 or better

Performance-based course designed around the job-related tasks a support professional must perform using new or modified features in the Windows 2000 operating system. Updates skills and knowledge from Windows NT to Windows 2000-based networks.

240 (5) Computer Hardware Troubleshooting

Prereq: CNE 210 with a grade of at least 2.0; CIS 150 recommended

An introduction to the installation and interfacing of hardware including storage, and peripheral devices including multimedia, memory, and video. Troubleshooting and conflict resolution/correction of problems in computer operation relating to hardware components will be included.

245 (5) Computer Software Troubleshooting

Prereq: CNE 230 with a grade of at least 2.0; CIS 150 recommended

Training in the installation and interfacing of software including operating systems, application programs, diagnostics, memory, and computer environmental controls. Software troubleshooting and conflict resolution/correction of problems in computer operation relating to software components will be included.

250 (5) NetWare Administration

Prereq: CNE 220 with a grade of at least 2.0

Training in management and administration of networks, to address the issues of security, procedures and documentation, user support, printing, and file server organization. Includes administrative tools necessary to setup, manage, and use basic network services including security and E-mail.

251 (5) Unix Administration

Prereq: CNE 220 with a 2.0 grade or better

Training in management and administration of networks to address the issues of security, procedures and documentation, user support, printing and file server organization. Includes administrative tools necessary to setup, manage and use basic network services including security and E-mail.

252 (5) Implement & Support NT 4.0 Workstation

Prereq: CNE with a grade of at least 2.0

Intensive course focusing on knowledge and skills necessary to install and configure Microsoft NT Workstation operating system version 4.0. Provides positive hands-on experience with installation and configuration, as well as observation of basic configuration features of the system.

253 (5) Deploying & Managing Microsoft Internet Security & Acceleration Server

Prereq: CNE 236 with a 2.0 grade or better

Provides Information Technology students with the knowledge and skills to deploy and manage Microsoft Internet Security and Acceleration (ISA) Server in an enterprise environment.

254 (5) Fundamentals of Network Security

Prereq: CIS 266 with a 2.0 grade or better

Provides students with the knowledge and skills to begin supporting network security within an organization. Students who complete this course will be able to identify security threats and vulnerabilities, and help respond to and recover from security incidents.

255 (5) NetWare Advanced Administration

(formerly LAN Server Administration)

Prereq: CNE 250 with a grade of at least 2.0.

Training in advanced administration skills such as tuning the network and server for better performance and managing complex tree structures. Instruction on how to oversee a complex NetWare networking environment, including Novell Directory Services partitioning and replication, time synchronization strategies and integrating with prior NOS versions.

256 (5) Unix Advanced Administration

Prereq: CNE 251 with a 2.0 grade or better

Training in advanced administration skills such as tuning the network and server for better performance and managing complex tree structures. Instruction on how to oversee a complex Unix networking environment, including Unix Directory Services partitioning and replication, time synchronization strategies and integrating with prior NOS versions.

257 (5) Implement & Support Windows NT 4.0 Server

Prereq: CNE 252 with a grade of at least 2.0

Intensive course focusing on knowledge and skills necessary to implement, administer, and troubleshoot information systems that incorporate Windows NT Server 4.0 in a simple computing environment. Training will focus on homogeneous LANs which include one or more servers, a single domain, and single location. Consideration will be given to file- and print-sharing capabilities.

260 (5) NetWare Installation & Configuration

Prereq: CNE 255 with a grade of at least 2.0

Install and configure a NetWare network, focusing on Novell Directory Services (NDS) configuration. Includes scenarios for upgrading, migrating, and installing to implement a different design of the NDS tree structure.

261 (5) Unix Installation & Configuration

Prereq: CNE 256 with a 2.0 grade or better

Install and configure a Unix network, focusing on Unix Directory Services (NDS) configuration. Includes scenarios for upgrading, migrating, and installing to implement a different design of the NDS tree structure.

262 (5) Supporting Windows NT 4.0 Core Technologies

Prereq: CNE 257 with a grade of at least 2.0

Intensive course focusing on skills necessary to install, configure, customize, optimize, network, integrate, and troubleshoot Windows NT 4.0. Content primarily of interest in a complex environment -- such as capacity planning on a server and a network, multiple domain management, and trust relationships.

265 (3) NetWare Directory Services Design & Implementation (formerly Network Technical Support)

Prereq: CNE 260 with a grade of at least 2.0

Create and complete a NetWare Directory Services (NDS) design strategy and implementation schedule using templates which can be transferred to the workplace. Course will identify critical factors and expectations for designing a NetWare network, to include determining pre-optimization and clean-up strategies for implementation.

266 (3) UDS Design & Implementation

Prereq: CNE 261 with a 2.0 grade or better

Create and complete a Unix Directory Services (UDS) design strategy and implementation schedule using templates which can be transferred to the workplace. Course will identify critical factors and expectations for designing a Unix network; to include determining pre-optimization and clean-up strategies for implementation.

267 (5) Internetworking with Microsoft TCP/IP on Windows NT 4.0

Prereq: CNE 262 with a grade of at least 2.0

Intensive course focusing on knowledge and skills necessary to setup, configure, use, and support Transmission Control Protocol/Internet Protocol (TCP/IP) on Windows NT 4.0. Special emphasis is given to DHCP Manager, HOSTS/LMHOSTS, SNMP, connectivity, monitoring and optimization.

270 (3) Data Communications Technology

Instruction in the theories and practices in data communication, particular product and technology implementation. Training in the basic concepts of linkage between two communications traditions, LAN and telephony management. Capabilities, capacities, strengths, and weaknesses of variety of signaling and cabling techniques discussed.

272 (5) Supporting Windows NT 4.0 Server – Enterprise Technology

Prereq: CNE 267 with a grade of at least 2.0
Intensive course focusing on knowledge and skills necessary to design, implement, and support the Windows NT Server network operating system in a multidomain enterprise environment. Training will focus on directory services, server analysis and optimization, network analysis and optimization, and troubleshooting.

277 (5) Implementing & Supporting Microsoft Internet Information Server 4.0

Prereq: CNE 272 with a grade of at least 2.0
Intensive course focusing on knowledge and skills necessary to install, configure and implement all components of Internet Information Server 9IIS. Includes training in procedures to establish and maintain a Web site/server.

280 (5) NetWare Service & Support

(formerly Network Design & Implementation)
Prereq: CNE 265 with a grade of at least 2.0
Focus on the prevention, diagnosis, and resolution of hardware-related problems which are common to computer networks utilizing the NetWare network operating system. Teaches practical skills to allow optimization of hardware resources in relation to NetWare networking products.

281 (3) Integrating Windows NT

(formerly Internet & TCP/IP & 2 credits)
Prereq: CNE 280 with a grade of at least 2.0
Fundamentals of Windows NT networking and techniques to integrate Windows NT with a NetWare network. Includes basics of NT registry and administrative utilities to manage the NT environment.

282 (5) NetWare Products

Prereq: CNE 280 and CNE 281
An introduction to managing NetWare printing environments that support network printers attached to file servers, workstations or dedicated print servers and use of third-party print server hardware and software. Hands-on experience installing, configuring, and managing internet working products.

284 (5) Unix Service & Support

Prereq: CNE 266 with a 2.0 grade or better
Focus on the prevention, diagnosis, and resolution of hardware-related problems which are common to computer networks utilizing the Unix network operating system. Teaches practical skills to allow optimization of hardware resources in relation to Unix networking products.

285 (3) Integrating Windows Server with Unix

Prereq: CNE 284 with a 2.0 grade or better
Fundamentals of Windows Server networking and techniques to integrate Windows Servers with a Unix network. Includes basics of Windows Server registry and administrative utilities to manage the Windows environment.

290 (5) Supervised Internship

Prereq: CNE majors only
Supervised work experience of 25 hours per week in a network support environment (250 hours).

COOPERATIVE EDUCATION (COOP)**150-153 (1-8) Cooperative Education**

Prereq: Employment In an approved occupation and concurrent enrollment In COOP 160-163

A Work Based Learning experience incorporating an educational component as it relates to the Individual student work experience.

160-163 ((1) Seminar: Cooperative Education

Prereq: Currently employed and concurrent enrollment In COOP 150-153

A Work Based Learning seminar that enhances the work experience by presenting appropriate solutions to job related issues.

CONSTRUCTION MANAGEMENT (CONST)**101 (3) Introduction to Construction Industry**

Construction processes are introduced, including Industry terminology, business practices (estimating/bidding, scheduling, project management, field operations), and career pathways.

140 (3) Blue Print Reading

Introduction to construction drawings with emphasis on reading, interpreting, and communicating the content of the documents.

150 (3) Construction Documents

Construction Documents and their use as a tool to manage the construction process.

160 (3) Materials & Methods

The technical aspects of construction systems, including the procedures and methods for masonry, steel, wood, and concrete construction. Recent trends in construction materials are also covered.

180 (5) Building Codes

A study of the application and administration of electrical, plumbing, and mechanical codes in the construction industry.

200 (3) Estimating I

Prereq: CONST 140 or instructor permission

A comprehensive introduction to construction estimating and bidding, including basic concepts, procedures, terminology, and pricing techniques. Covers work issues and costs connected with the major components of a construction projects.

201 (3) Estimating II

Prereq: CONST 200

Continuance of Estimating I with an increasingly in-depth analysis of pricing and bidding strategies. Course includes a detailed analysis of bid types, the use of estimating software, the developing productivity of labor, using contingencies and allowances, and ethics in the profession of estimating and bidding.

230 (5) Scheduling

Prereq: CONST 200

Principles of scheduling to control and manage a construction project. Critical path planning techniques by determining durations of individual project activities and their sequence relationships to each other. Resource and cash flow analysis schedule loading. Use of scheduling software.

250 (3) Safety & Accident Prevention

Construction industry standards for accident prevention, hazard identification, and compliance responsibility are emphasized in conjunction with an overview of Occupational Safety and Health Act and other related federal and state legislative requirements.

260 (5) Project Management Start to Finish

Prereq: CONST 230

Project organization, documentation, and control methods utilized to manage all facets of a project from start to completion.

CRIMINAL JUSTICE (CJ)**101 (2) Community Partnership Program**

This is an opportunity for a local criminal justice agency to provide specific attention to historical background of the agency and employment practices to include mock or specific employment exams. This course will assist students in understanding specific practices and determine if this portion of the Criminal Justice system reflects their needs.

105 (5) Introduction to Criminal Law

Basic introduction to the elements of criminal law and justice in the United States.

110 (5) Criminal Justice in America GER-SS

An examination of the Criminal Justice process with specific emphasis on structures, functions and actors of U.S. state and federal courts.

115 (5) Juvenile Justice System

A critical examination of the agencies and decision-makers responsible for controlling juvenile crime and delinquency; the decisions they make and their impact upon crime, juveniles, and the community.

120 (5) Constitutional Rights GER-SS

An examination of the evolution and current judicial interpretation of the first, second, fourth, fifth, sixth, eighth, and fourteenth amendments to the United States Constitution.

130 (5) Criminal Justice Operational Skills

Prereq: CJ 110 or instructor permission

Practical applications in recognition and solution of frequently encountered criminal justice tasks and problems. Emphasizes use of information gathering, communications, problem resolution and decision making skills.

135 (3) Special Populations in Corrections

An examination of special populations in corrections, their impact on the correctional system and the system's responsibilities to them.

140 (5) Corrections in America GER-SS

A broad overview of the theories, practices, and employment prospects in the correctional field in the United States.

145 (3) Case Management in Corrections

An examination of correctional case management strategies and intervention techniques.

150 (5) Police in America

An examination of the history and roles of the police and the social, political, organizational, and legal environment within which the police perform those roles in modern United States of America.

200 (5) Crime & Justice in America: Issues GER-SS

Prereq: ENGL 101

A seminar approach to contemporary issues relating to society's response to crime and criminals (the Criminal Justice System) through discussion of major issues in criminal and constitutional law, criminal justice policy, societal values, and legal procedure.

202 (5) Concepts of Criminal Law GER-SS

An analysis of the fundamental concepts of both the English Common Law and modern statutory criminal law and defenses.

205 (5) Investigative Technology

The use of technical equipment and scientific methods to assist in crime detection.

215 (5) Drugs & Society GER-SS

An examination of American drug use and drug traffic and their impact upon the individual and society.

220 (2) Special Topics in Criminal Justice**221 (3) Special Topics in Criminal Justice****222 (4) Special Topics in Criminal Justice****223 (5) Special Topics in Criminal Justice**

A critical examination of the written materials and practical applications relevant to current/critical issues in Criminal Justice and their impact on the criminal justice system and society. The specific topic(s) vary from quarter to quarter.

224 (5) Victimology & Advocacy

An overview of current victim issues, laws, resources, treatments, recovery, and advocacy for victims of crime and other social problems

225 (3) Victim Issues

An overview of current victim issues, the development of laws that impact victims and resource access for victims.

226 (5) CJ Response to Terrorism

A course designed to familiarize students with the basics of terrorism, the history, laws and recent issues and criminal justice responses to terrorism in the 21st Century.

227 (5) Funding & Prevention for Crime & Justice

A course designed to familiarize students with the basics of the grant funding process for social programs (state & federal), and how to develop a prevention idea into a program that can be funded and measured.

245 (5) Introduction to Investigation & Evidence

Prereq: CJ 110

A survey of basic investigative methods and the rules controlling the admissibility of evidence in the criminal courts.

250-255 (3-8) Criminal Justice Work Based Learning

Prereq: Program Coordinator/Instructor Approval Required

On the job experience in a criminal justice agency that allows students to apply first hand criminal justice theories to practice.

■ DENTAL HYGIENE (DHYG)**102 (3) Dental Imaging I**

Prereq: Enrollment in Dental Hygiene Program

A basic course in dental radiology which includes the production and processing of x-rays, the study of biological effects, and the application of clinical radiographic techniques.

103 (2) Preventive Dentistry I

Prereq: Enrollment in Dental Hygiene Program

Study of the basic principles of dental deposits, dental diseases, prevention, plaque control, and motivation techniques.

104 (3) Biological Structures I

Prereq: Enrollment in Dental Hygiene Program

This course provides a strong background in the microscopic structures and organization of histological tissues of the teeth and oral cavity, including their embryologic development. The specific anatomic characteristics of both primary and permanent dentition are then integrated with this knowledge.

106 (1) Medical Emergencies in Dental Practice

Prereq: Enrollment in Dental Hygiene Program

The prevention, diagnosis and treatment of medical emergencies in the dental office setting.

107 (2) Introduction to Restorative Dentistry I

Prereq: Enrollment in Dental Hygiene Program

Study and demonstrate dental assisting skills and duties. Understand the basic physical mechanical properties of dental materials.

108 (3) Fundamentals of Dental Hygiene I

Prereq: Enrollment in Dental Hygiene Program

First of a series of seven courses, Fundamentals of Dental Hygiene I, II, III, IV, V, VI, and VII, to develop knowledge and comprehension of basic dental hygiene theory and practice. New knowledge and skills include principles of infection control, equipment use and maintenance, basic body mechanics, basics of dental instrumentation, integration of basic sciences and clinical practice, patient assessment, and basics of records management. Students will apply theory and processes for basic dental hygiene theory and practice.

109 (4) Dental Hygiene Practice I

Prereq: Enrollment in Dental Hygiene Program

First of a series of seven courses, Dental Hygiene Practice I, II, III, IV, V, VI, and VII, this course will facilitate development of student skills required for the practice of dental hygiene. New knowledge and skills include principles of infection control, equipment use and maintenance, basic body mechanics, basics of dental instrumentation, integration of basic sciences and clinical practice, patient assessment, and basics of records management. Students will apply theory and fundamentals introduced in Dental Hygiene 108 in a laboratory setting through delivery of simulated patient services for basic dental hygiene practice.

112 (2) Dental Imaging II

Prereq: Enrollment in Dental Hygiene Program

Emphasis is placed on extraoral radiographs, extra-oral and intraoral photography, and radiographic interpretation with clinical applications.

113 (1) Preventive Dentistry II

Prereq: Enrollment in Dental Hygiene Program

Study in the basic principles of dental deposits, dental diseases and their prevention, basics of plaque control, and motivation techniques.

114 (2) Biological Structures II

Prereq: Enrollment in Dental Hygiene Program

Integration of dental anatomy, oral histology, and head and neck anatomy with emphasis on identifying the regional arrangement, distribution and function of the gross anatomical structures pertinent to the head and neck area.

115 (2) General Pathology

Prereq: Enrollment in Dental Hygiene Program

An introduction to the mechanisms of diseases and to characteristics of diseases encountered in the practice of dental hygiene.

117 (2) Introduction to Restorative Dentistry II

Prereq: Enrollment in Dental Hygiene Program

Allows students to develop knowledge and skills used in the manipulation and placement of dental restorations.

118 (2) Fundamentals of Dental Hygiene II

Prereq: Enrollment in Dental Hygiene Program

Second of a series of seven courses, Fundamentals of Dental Hygiene I, II, III, IV, V, VI, and VII, to further develop knowledge and comprehension of basic dental hygiene theory and practice. Students will apply theory and processes for developing a dental hygiene diagnosis, dental hygiene treatment plan, and delivery of patient care and treatment. New knowledge and skills include principles of abrasives and coronal polishing, use and care of dental handpieces, introduction of basic instrumentation for scaling procedures and instrument sharpening, patient case type classification, dental hygiene treatment planning and sequencing, and identification and maintenance of removable dental appliances.

119 (6) Dental Hygiene Practice II

Prereq: Enrollment in Dental Hygiene Program

Second of a series of seven courses, Dental Hygiene Practice I, II, III, IV, V, VI, and VII, this course will facilitate development of student skills required for the practice of dental hygiene. New practice and application includes coronal polishing, use and care of dental handpieces, basic instrumentation for scaling procedures and instrument sharpening, patient case type classification, developing dental hygiene diagnosis and treatment plans, and delivery of patient care services. Students will apply theory and fundamentals introduced in Dental Hygiene 118, in a clinical setting through delivery of direct patient services.

121 (3) Introduction to Periodontology II

Prereq: Enrollment in Dental Hygiene Program

An overview of periodontal disease recognition and therapy for the dental hygienist. Content includes an introduction to non-surgical periodontal therapy, root morphology, and periodontal instrumentation.

122 (3) Pharmacology for Dental Hygienists

Prereq: Enrollment in Dental Hygiene Program

The general pharmacology and therapeutic actions of drugs used and encountered in dental and dental hygiene practice.

123 (1) Preventive Dentistry III

Prereq: Enrollment in Dental Hygiene Program and successful completion of DENT 103 & 113.

Emphasis on effective communication with patients as well as co-workers. Students will be given the opportunity to develop their own style of presenting patient education while learning motivation techniques.

125 (2) Oral Pathology

Prereq: Enrollment in Dental Hygiene Program

An introduction to oral pathologic processes, the recognition of oral diseases and oral manifestations of commonly encountered systemic diseases, and their considerations to the practice of dental hygiene.

127 (2) Introduction to Restorative Dentistry III

Prereq: Enrollment in Dental Hygiene Program

Application of knowledge and skills used in the placement and finishing of dental amalgam and composite restorations.

128 (2) Fundamentals of Dental Hygiene III

Prereq: Enrollment in Dental Hygiene Program

The third of a series of seven courses, Fundamentals of Dental Hygiene I, II, III, IV, V, VI, and VII, to develop knowledge and comprehension of basic dental hygiene theory and practice. New knowledge and skills include Gracey curets, periodontal files, furcation probes, margination procedures, and fabrication of custom fluoride trays and management of dental hypersensitivity. Students will apply theory and processes for developing dental hygiene diagnosis, dental hygiene treatment planning, case presentation and Informed Consent and delivery of patient care. Students will complete a Capstone Project of a patient case history utilizing comprehensive documentation, digital imaging and computer assisted presentation tools, culminating in a digital case portfolio.

129 (6) Dental Hygiene Practice III

Prereq: Enrollment in Dental Hygiene Program

Third of a series of seven courses, Dental Hygiene Practice I, II, III, IV, V, VI, and VII, to further facilitate development of student skills required for the practice of dental hygiene. New practice and application include Gracey curets, periodontal files, furcation probes, case history and documentation, margination, custom fluoride trays, and management of dental hypersensitivity. Students will apply theory and fundamentals introduced in Dental Hygiene 128 in a clinical setting through delivery of more advanced direct patient services.

162 (1) Dental Imaging III

Prereq: Enrollment in Dental Hygiene Program

This course is a continuation of Dental Imaging I and II and is designed to familiarize students with the advancing technology in dental imaging, specifically the utilization of digital radiography and intraoral video imaging in dental and dental hygiene care.

164 (2) Health Professions Team Building

Prereq: Enrollment in Dental Hygiene Program or instructor permission

The purpose of this course is to develop behavioral skills and strategies that will assist health care professionals to interact and communicate effectively in a variety of professional settings.

166 (3) Local Anesthesia Science & Technique

Prereq: Enrollment in Dental Hygiene Program

The science and technique of administering safe and effective local anesthetic to the dental patient.

167 (1) Introduction to Restorative Dentistry IV

Prereq: Enrollment in Dental Hygiene Program

Continuation of preclinical laboratory course in the placement and finishing of amalgam and composite restorations on adult teeth. Introduction in the placement and finishing of amalgam restorations for the primary dentition.

168 (1) Fundamentals of Dental Hygiene IV

Prereq: Enrollment in Dental Hygiene Program

This is the fourth of a series of seven courses, Fundamentals of Dental Hygiene I, II, III, IV, V, VI, and VII, this course builds on fundamentals of dental hygiene theory and practice laid out in previous courses. This course serves as a seminar to clinical course DENT 169 to develop skills in dental hygiene diagnosis, dental hygiene treatment planning, and delivery of patient care to periodontally involved patients. Students will use digital imaging and computer assisted tools to expand their case portfolios. Satisfies state mandated HIV/AIDS curriculum for dental hygiene licensure in Washington.

169 (6) Dental Hygiene Practice IV

Prereq: Enrollment in Dental Hygiene Program

Fourth of a series of seven courses, Dental Hygiene Practice I, II, III, IV, V, VI, and VII, to further facilitate development of student skills required for the practice of dental hygiene. Students will apply theory and fundamentals in a clinical setting through delivery of more advanced direct patient services.

231 (2) Advanced Periodontology I

Prereq: Enrollment in the Dental Hygiene Program and successful completion of DENT 121
A continuation of DENT 121 focused on modern science and techniques used in dental hygiene examination, diagnosis, and treatment of patients with periodontal disease.

232 (1) Nutrition for Dental Hygienists

Prereq: Enrollment in Dental Hygiene Program
Scientific effects of food in the human organism plus the role of nutrients in preventive dentistry, nutritional education, and counseling for dental hygienists.

233 (2) Gerodontology/ Special Needs

Prereq: Enrollment in Dental Hygiene Program and successful completion of DENT 103 & 113.
Acquaints the student with the psychosocial and physical changes in the aging process and of special needs patients, and how these changes relate to oral health care treatment and maintenance.

234 (2) Fundamentals of Restorative Dentistry I

Prereq: Enrollment in Dental Hygiene Program
Restorative operations, manipulation, techniques and procedures of modern dental materials, endodontics and temporary crowns for the dental hygienist.

236 (1) Nitrous Oxide Psychosedation in Dentistry

Prereq: Enrollment in Dental Hygiene Program
The science and technique of nitrous oxide and oxygen psychosedation in dentistry. Evaluating the suitability for nitrous oxide inhalation sedation on individual patients and for selected dental procedures.

237 (2) Clinical Restorative Dentistry I

Prereq: Enrollment in Dental Hygiene Program
Beginning clinical instruction and practice in the placement and finishing of amalgam and tooth colored restorations.

238 (3) Fundamental of Dental Hygiene V

Prereq: Enrollment in Dental Hygiene Program
Fifth in a series of seven to continue to provide and develop information in basic dental hygiene theory and practice.

239 (7) Dental Hygiene Practice V

Prereq: Enrollment in Dental Hygiene Program
Fifth in of a series of seven courses, Dental Hygiene Practice I, II, III, IV, V, VI, and VII, to further develop the students' skill base and introduce additional basic dental hygiene theory and practice. Students will continue to apply developed skills in providing more advanced direct patient care.

241 (1) Advanced Periodontology II

Prereq: Enrollment in Dental Hygiene Program
Expands the dental hygienist's knowledge of current treatment modalities and techniques for the periodontal patient. The content includes information on advanced therapies.

243 (3) Community Dental Health

Prereq: Enrollment in Dental Hygiene Program
Principles of dental public health theory and practice, including epidemiology, biostatistics, prevention and control of dental disease, and community oral health education.

244 (1) Fundamentals of Restorative Dentistry II

Prereq: Enrollment in Dental Hygiene Program
Continuation of laboratory course in the placement and finishing of amalgam restorations.

246 (2) Extramural Dental Hygiene Practice I

Prereq: Enrollment in Dental Hygiene Program
Clinical dental hygiene in extramural clinic and community facilities.

247 (2) Clinical Restorative Dentistry II

Prereq: Enrollment in Dental Hygiene Program
Intermediate clinical practice of restorative dentistry for the Dental Hygienist.

248 (3) Fundamentals of Dental Hygiene VI

Prereq: Enrollment in Dental Hygiene Program
Dental hygiene patient management techniques and treatment planning. Development of leadership skills as a dental office team member.

249 (7) Dental Hygiene Practice VI

Prereq: Enrollment in Dental Hygiene Program and successful completion of DENT 109, 119, 129, 169, 239
Develops the students' clinical skill base and introduces additional basic dental hygiene theory and practice.

253 (1) Community Dental Health Practice

Prereq: Enrollment in Dental Hygiene Program
A course incorporating dental public health field experiences and the development and implementation of community oral health services.

254 (1) Fundamentals of Restorative Dentistry III

Prereq: Enrollment in Dental Hygiene Program
Techniques, case planning and issues in general practice dentistry and the dental specialties. Utilization of the dental hygienist in the dental specialty fields.

256 (2) Extramural Dental Hygiene Practice II

Prereq: Enrollment in Dental Hygiene Program
Clinical dental hygiene in extramural clinic and community facilities.

257 (2) Clinical Restorative Dentistry III

Prereq: Enrollment in Dental Hygiene Program
Advanced clinical practice of restorative dentistry for the dental hygienist.

258 (3) Fundamentals of Dental Hygiene VII

Prereq: Enrollment in Dental Hygiene Program
Dental hygiene professionalism topics and strategies for obtaining a dental hygiene position in today's job market.

259 (7) Dental Hygiene Practice VII

Prereq: Enrollment in the Dental Hygiene Program and successful completion of DENT 109, 119, 129, 169, 239
Continue to develop the basic application of advanced dental hygiene theory and practice with new patient experiences that simulate an authentic work place.

DEVELOPMENTAL DISABILITIES TECHNOLOGY (DD)

Courses are offered through Extended Learning only.

110 (3) Working with People with Developmental Disabilities

An introduction to instruction in working with people with developmental disabilities. Areas of focus include teaching techniques; non-aversive behavioral intervention; communication (Signing Exact English); dignity issues; lifting techniques; and working with people who are blind and/or deaf.

115 (3) Systematic Guidelines for Teaching People with Developmental Disabilities

The application of teaching techniques and data recording systems when assisting adolescents or adults with developmental disabilities.

184 (3) Teaching Language for the DD

Expressive and receptive language including speech, sign language and use of identification cards for all levels of developmentally disabled.

250 (2) Effective Supervision

Principles and techniques of supervising people who are developmentally disabled. This course includes communication, personal growth, stress management, and providing a safe work environment.

DIGITAL DESIGN (DDSGN)**110 (5) Introduction to Graphic Design & Rich Media**

Prereq: CIS 121 or Instructor permission
Overview of the Graphic Design and Interactive Media field. Introduction to terminology, changes, and trends, in the business and industry. Discussion of various media, such as image manipulation, computer illustration, web design, digital video, animation, and ethics.

120 (5) Introduction to Production Management

Prereq: ART 101 or 111 and CIS 121
This course will trace the production flow from creation to implementation. Specific subjects will include stages of analysis and development, principles of task management, hardware compatibility, file conversions and choices of software.

130 (5) Graphic Design II

Prereq: DDSGN 110 or DDSGN 120 or instructor permission
Concept development in visual communication problem solving involving letter forms, illustrative material and typography. Principles of selection, organization, and production techniques are introduced.

140 (5) Fundamentals of 3-D Modeling & Animation

Prereq: DDSGN 110, 120
Introduction to the resources and applied procedures necessary to produce high quality 3-D products and animation for publication through electronic media.

141 (5) Advanced 3-D Modeling & Animation

Prereq: DDSGN 140
Advanced exposure to resources and applied procedures necessary to produce high quality 3-D models and animation for publication through electronic and print media.

150 (5) Web Design & CSS

Prereq: CIS 121 or Instructor permission
Develop skills necessary for effective delivery of content via the Internet. Students develop web sites using digital design programming, interactive techniques and associated tools. Students are also introduced to basic principles of site management, business strategies and information architecture.

160 (5) Fundamentals of Digital Photography

Prereq: DDSGN 110, 120
Beginning language, concepts and issues of nonlinear editing systems. Learn how to input and manipulate images into the computer through scanning, photo CD, and digital photography.

161 (5) Advanced Adobe Photoshop

Prereq: DDSGN 110 or Instructor permission
Advanced production techniques in Adobe Photoshop. Class explores and implements digital imaging theory and processes to enhance and retouch photographs and create new works of art.

170 (5) Fundamentals of Video Production & DVD Authoring

Prereq: DDSGN 110 or DDSGN 120 or instructor permission
Production techniques to integrate video, still images, sound, and music into various digital formats. Class explores and implements Interface theory and authoring techniques for Video DVDs

210 (5) Fundamentals of Multimedia Authoring Systems

Prereq: DDSGN 110-170
Projects in basic design of interactive projects. Use of authoring software to integrate still images, video, music, and sound.

220 (5) Integrated Digital Design I

Prereq: DDSGN 110-210
First quarter of a capstone sequence integrating all aspects of interactive digital design into the development of an individual interactive project from concept to final production.

230 (5) Integrated Digital Design II

Prereq: DDSGN 110-220 (or concurrently with DDSGN 220)
Second quarter of a capstone sequence integrating all aspects of interactive digital design into the development of an individual interactive project from concept to final production.

240 (1) Seminar: Cooperative Education

Prereq: DDSGN 110-210
A planned learning experience which will provide a forum for occupational related topics.

■ EARLY CHILDHOOD EDUCATION (ECE)

091 (2) Parent & Toddler

Prereq: Parent participates with toddler. Department permission.

Participation of parents with toddlers twelve to twenty-four months of age in a child-study laboratory for the purpose of parent education in child growth and development. Course components include observation, lecture and discussion sessions.

101-109 (3) Parent & Child

Prereq: Parent participates with child. Department permission.

Participation of parents with children three through five years of age in a child-study laboratory for the purpose of parent education in child growth and development. Course components include observation, lecture and discussion sessions and leadership development opportunities.

110 (2) S.T.A.R.S. State Basic Training for Child Care Providers

Course explores Washington State Child Care Licensing requirements for developmentally appropriate practices including children's environments, curricular applications, guidance and discipline, health safety, nutrition, and family partnerships. Meets requirements of the Washington State Training and Registry System twenty-hour basic training.

111 (5) Intro to Early Childhood Education GER-SS

A study of the theories and principles in the growth and development of young children. Surveys programs, issues, trends relating to the care and education of young children, including state and federal legislation.

112 (5) Planning The Young Child's Learning Environment

A study of developmentally appropriate equipment, materials and practices for the indoor and outdoor learning environments. Methods and procedures for implementing curriculum, guidance and discipline and evaluation.

115a,b,c (1) Guiding the Behavior of Young Children

This course is designed to introduce students to strategies that are developmentally appropriate for guiding children in an early childhood environment. The strategies include techniques for guiding children's behavior, strengthening relationship-focused care, and understanding cultural relevance. Students also learn to individualize to meet the needs of children. Using research, theory and practice, students develop action plans for classroom management, indirect and direct guidance strategies, communication skills for promoting positive behaviors and intervention techniques for mistaken behaviors.

125-127 (2) Parent & Toddler

Prereq: Parent participates with toddler. Department permission.

Participation of parents with children twelve to twenty-four months of age in a child-study laboratory for the purpose of parent education in child growth and development. Course components include observation, lecture and discussion sessions. Pass/No Pass grading system used.

131-139 (1) Parent & Child

Prereq: Parent participates with child. Department permission.

Participation of parents with children three through five years of age in a child-study laboratory for the purpose of parent education in child growth and development. Course components include observation, lecture and discussion sessions and leadership development opportunities.

141-149 (2) Parent & Child

Prereq: Parent participates with child. Department permission.

Participation of parents with children 18-36 months of age in a child-study laboratory for the purpose of parent education in two year old growth and development. Course components include observation, lecture and discussion sessions.

202 (5) Math/Science for Children

Prereq: ECE 111 AND one of the following: ECE 205, 213, 215

A study of the cognitive development of young children and its application to mathematics and science conceptual development. Research, planning, and assessment of math and science curriculum and its application to the young child's learning environment.

205 (5) Music for Young Children

Methods of presenting developmentally appropriate music experiences to young children including listening, creative movement, singing, and rhythm activities. A study of culturally diverse materials and techniques to encourage the child's creativity.

210 (3) Curriculum Development & Application

Prereq: ECE 111, 112, 202, 205, 213, and 215 with minimum grades of 2.0 and dept. permission. Must be taken concurrently with ECE 220.

The development and evaluation of appropriate practices, learning materials, and experiences for the individual and group needs of children within the laboratory setting. Current teaching theories/theorists (Piaget, Vygotsky, Gradner, Bloom) are planned for application in the laboratory. Current observation and assessment models evaluated and synthesized into a usable tool for a young child's learning environment.

211 (3) Introduction to Special Education

An introductory course in understanding educational programs and state and federal laws regarding the education of children with special needs.

212 (5) Survey of Special Education/Early Intervention

An introductory course in understanding educational programs and state and federal laws regarding the education of children with special needs. Studies early intervention and its life long value to physical, cognitive, social, and emotional growth and development.

213 (5) Literature for Young Children

A study of the historical background and types of literature available for young children. Includes methods and materials for sharing diverse literature and developmentally appropriate selections with children based upon cognitive and psychosocial theories.

215 (5) Art for Children

A study of creative art experiences for children. Providing theories, techniques and curriculum design in offering developmentally appropriate art media to children.

220 (5) Nursery School Practicum

Prereq: ECE 111, 112, 202, 205, 213, and 215 with minimum grades of 2.0 and department permission. Must be taken concurrently with ECE 210.

Designed for the student's participation in planning and implementing a developmentally appropriate classroom under qualified supervision in the Pierce College nursery school laboratory facility. Includes experiences in lead teaching, team building, and application of curriculum with young children.

222 (2) Child Care Work Based Learning

Prereq: ECE 111, 112, department permission and one of the following: ECE 205, 213, 215

Designed for students to observe and participate under qualified supervision in childcare centers throughout the community.

223 (2) Special Education Work Based Learning

Prereq: ECE 111, 112, department permission and one of the following: ECE 205, 213, 215

Designed for students to observe and participate under qualified supervision in special education programs throughout the community.

224 (2) Head Start / ECEAP Work Based Learning

Prereq: ECE 111, 112, department permission and one of the following: ECE 205, 213, 215

Designed for students to observe and participate under qualified supervision in Head Start or Early Childhood Education and assistance programs throughout the community.

230 (5) Parent-School Partnerships

Prereq: ECE 111 or department permission

Methods of building parent education and involvement partnerships. Provides exploration of personal identity and values in relationship to teacher-parent communication, team building, conferencing and social service referrals.

240 Nutrition, Health & Safety for Young Children

Nutrition, health, and safety practices and procedures appropriate for use when teaching young children. Includes state and local regulations concerning abuse and neglect, emergencies, disease-poison prevention, healthy classroom environments, and self-care.

256-260 (1-5) Early Childhood Field Experience

Prereq: ECE 111, department permission, and criminal background check required.

Supervised field experience in early childhood and/or elementary educational programs.

■ ECONOMICS (ECON)

110 (5) Survey of Economics

GER-SS

An overview of both microeconomics and macroeconomics. Topics include: (1) organization and operation of the U.S. economy including unemployment, inflation, and GDP issues; fiscal and monetary policies; (2) supply and demand; production; market structures; determination of prices in a market economy; and income distribution.

212 (5) Principles of Microeconomics GER-SS, QS

Prereq: MATH 098 or equivalent with a grade of 2.0 or better or placement test score above MATH 098.

Study of scarcity; the allocation of resources; supply and demand; production; market structures; determination of output and prices with emphasis on a market economy; labor and capital markets; role of government in a market economy; comparative advantage; international trade; and distribution of income.

213 (5) Principles of Macroeconomics GER-SS

Prereq: MATH 098 or equivalent with a grade of 2.0 or better or placement in MATH 121 or higher

Study of the organization and operation of the U.S. economy including unemployment, inflation, and GDP issues; the business cycle and long run growth; national income accounting; aggregate supply and aggregate demand; government spending, taxation, and the budget deficit/surplus; fiscal policy; the monetary system, the Federal Reserve Banking System; monetary policy; interest rates; and international trade.

■ EDUCATION (EDUC)

110 (3) Student Success

This course is designed to motivate students to increase their academic skills and techniques, to suggest strategies for success in college, and to give the students general information regarding resources and procedures.

111 (5) TRIO College Success

Designed to introduce TRIO program students to the skills and tools needed to become a successful college student. Topics include team building and problem solving, study skills, understanding the higher education system, career exploration, budget and time management, learning styles, communication skills (oral, written, electronic), and self awareness. Student cannot receive credit for both EDUC 110 and 111 toward degree requirements.

112 (2) Academic & Life Skills Seminar

Prereq: EDUC 110 or EDUC 111

Interactive capstone course designed for students who have already taken EDUC 110 or EDUC 111, to support development of personal and academic skills required for success at a 4-year school. Topics include networking, mentoring, overcoming personal life challenges, expanding and expounding on a previous exploration in self awareness and values clarification, and personal preparation for transition to a 4-year college.

130 (3) Technology in Education
Expose students to traditional classroom teaching aids, computer-assisted instructional methods, and assistive technology equipment designed to support students with disabilities.

201 (5) Introduction to Education

An introduction to teaching: historical, organizational, legal, ethical, philosophical, and social foundations of public education.

202 (1-5) Education Practicum

An introduction to field experience in education that includes classroom observations and seminar discussions..

215 (5) Introduction to Exceptional Students

(same as PARED 215)

Introduction to programs for exceptional students. Includes federal guidelines, assessment requirements and procedures, and models of service delivery.

220 (3) Learning Styles of Culturally Diverse Students

Familiarizes elementary and secondary teachers with the learning styles of culturally diverse students: Asian Americans, African Americans, Alaska/American Natives, and Hispanics.

230 (3) Curriculum & Instruction: Support Strategies

Students will learn strategies to accelerate student learning of reading, writing and mathematics. Special attention will be given to the development of effective communication, multicultural education and the delineation of the paraeducator role and responsibilities in curriculum design and instruction.

ELECTRICAL APPRENTICE (APEL)

Courses are offered through Extended Learning/Contracted programs only.

101 (10) Construction Electrician I

Prereq: Approval by Southwest Washington Electrical Joint Apprenticeship Training Committee

Lecture instruction to provide a theoretical background for the on-the-job training of first-year construction electrician apprentices.

102 (10) Construction Electrician I

Prereq: APEL 101 and approval of S.W.W.A.E.J.A.T.C.

Lecture instruction to provide a theoretical background for on-the-job training of first-year construction electrician apprentices.

103 (7) Construction Electrician I

Prereq: Successful completion of APEL 102 and approval of S.W.E.J.A.T.C.

Lecture instruction for first-year construction electrician apprentices.

104 (6) Low Energy/Sound & Communications I

Lecture instruction to provide a theoretical background for the on-the-job training of first-year low energy electrical apprenticeship.

105 (6) Low Energy/Sound & Communications I

Prereq: APEL 104 and approval of S.W.E.J.A.T.C.
Lecture instruction on basic electronics for first-year low voltage electrical apprentices.

106 (4) Basic Electronics for Low Voltage Systems

Prereq: APEL 105 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of first-year low voltage electrical apprenticeship.

107 (6) Low Energy/Sound & Communication II

Prereq: Successful completion of APEL 106 and approval of S.W.E.J.A.T.C.

Instruction for second-year low voltage electrical apprentices.

108 (6) Low Energy/Sound & Communication II

Prereq: APEL 107 and approval of S.W.E.J.A.T.C.
Lecture instruction on basic electronics for second-year low voltage electrical apprentices.

109 (4) Low Energy/Sound & Communications II

Prereq: Successful completion of APEL 108 and approval of S.W.E.J.A.T.C.

Instruction for second-year low voltage electrical apprentices.

111 (5) Residential Wireman I

Prereq: Approval by Southwest Washington Electrical Joint Apprenticeship Training Committee

Classroom instruction for first-year residential wireman apprentices.

112 (5) Residential Wireman I

Prereq: APEL 111 and approval of S.W.E.J.A.T.C.
Lecture instruction for first-year residential wireman apprentices.

113 (4) Residential Wireman I

Prereq: Successful completion of APEL 112 and approval by S.W.E.J.A.T.C.

Lecture instruction for first-year residential wireman apprentices.

114 (5) Residential Wireman II

Prereq: Successful completion of APEL 113 and approval by S.W.E.J.A.T.C.

Classroom instruction for second-year residential wireman apprentices.

115 (5) Residential Wireman II

Prereq: Successful completion of APEL 114 and approval of S.W.E.J.A.T.C.

Classroom instruction for second-year residential wireman apprentices.

116 (4) Residential Wireman II

Prereq: Successful completion of APEL 115 and approval of S.W.E.J.A.T.C.

Lecture instruction for second-year residential wireman apprentices.

117 (6) Low Energy/Sound & Communications III

Prereq: APEL 109 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of third year low energy electrical apprenticeship.

118 (6) Low Energy/Sound & Communications III

Prereq: APEL 117 and approval of S.W.E.J.A.T.C.

Lecture instruction to provide a theoretical background for the on-the-job training of third year low energy electrical apprenticeship.

119 (6) Low Energy/Sound & Communications III

Prereq: APEL 118 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of third year low energy electrical apprenticeship.

121 (10) Construction Electrician II

Prereq: APEL 102 and approval of S.W.W.A.E.J.A.T.C.

Lecture instruction to provide a theoretical background for the on-the-job training of second-year construction electrician apprentices.

122 (10) Construction Electrician II

Prereq: APEL 121 and approval of S.W.W.A.E.J.A.T.C.

Lecture instruction to provide a theoretical background for the on-the-job training of second-year construction electrician apprentices.

123 (6) Construction Electrician II

Prereq: APEL 122 and approval of S.W.E.J.A.T.C.
Lecture instruction for second-year construction electrician apprentices.

131 (10) Construction Electrician III

Prereq: APEL 123 and approval of S.W.E.J.A.T.C.

Lecture instruction to provide a theoretical background for the on-the-job training of third-year construction electrician apprentices.

132 (10) Construction Electrician III

Prereq: APEL 131 and approval of S.W.E.J.A.T.C.

Lecture instruction to provide a theoretical background for the on-the-job training of third-year construction electrician apprentices.

133 (6) Construction Electrician III

Prereq: APEL 132 and approval of S.W.E.J.A.T.C.

Lecture instruction to provide a theoretical background for the on-the-job training of third-year construction electrician apprentices.

141 (10) Construction Electrician IV

Prereq: APEL 132 and approval of S.W.E.J.A.T.C.

Lecture instruction to provide a theoretical background for the on-the-job training of fourth-year construction electrical apprentices.

142 (10) Construction Electrician IV

Prereq: APEL 141 and approval of S.W.E.J.A.T.C.

Lecture instruction for fourth-year construction electrical apprentices.

143 (6) Construction Electrician IV

Prereq: APEL 142 and approval of S.W.E.J.A.T.C.

Lecture instruction for fourth-year construction electrical apprentices.

151 (10) Construction Electrician V

Prereq: APEL 142 and approval of S.W.E.J.A.T.C.

Lecture instruction to provide a theoretical base for on the job training of fifth-year construction apprentices.

152 (10) Construction Electrician V

Prereq: APEL 151 and approval of S.W.E.J.A.T.C.

Lecture instruction to provide a theoretical background for on-the-job training of fifth-year construction electrician apprentices.

153 (10) Construction Electrician V

Prereq: APEL 152 and approval by S.W.E.J.A.T.C.

Lecture instruction to provide a theoretical background for the on-the-job training of fifth-year construction electrician apprentices.

ENGINEERING (ENGR)

101 (5) Introduction to Engineering GER-MS

Introduction to the engineering profession: explore different fields of engineering and the design process. Includes design projects, strategies for creativity in problem solving, group skills, oral presentations. Devise an academic plan based on transfer requirements. Develop study and academic skills. Guest speakers.

110 (5) Engineering Graphics (Basic/Intermediate Computer Aided Drafting)

Prereq: CIS 121 or instructor permission

Introduces the student to Computer-Aided Drafting (CAD) stressing the competent use of micro-computers, plotters, digitizers, software and other related materials. The class will accommodate multilevel approaches to CAD. Each student will be assigned a project that utilizes CAD tailored to the students particular field of interest.

142 (5) Computer Programming (C++) for Engineers

Prereq: MATH 121 with a grade of 2.0 or better

Fundamentals of computer programming with emphasis on solving engineering problems. C/C++ language implementation. Syntax, variables, statements, control structures, loops, functions, data structures, files, pointers, memory use. Procedural and object-oriented programming. Objects, inheritance, polymorphism.

210 (5) Statics

Prereq: MATH 125 and PHYS 121 or instructor permission

Introduction to the principles of Statics. Analysis of two and three dimensional force systems; free-body diagrams and equilibrium equations; analysis of trusses, frames, and machines; centroids and distributed forces; friction application. Vector methods used throughout the course.

230 (5) Dynamics

Prereq: ENGR 210 (formerly 180) and MATH 125 and PHYS 121 or instructor permission

Introduction to the principles of Dynamics. Kinematics of particles and rigid bodies. Kinetics of particles and rigid bodies using equilibrium, work-energy, and impulse-momentum methods. Vector methods used throughout the course.

240 (5) Mechanics of Materials

Prereq: ENGR 210 and MATH 125 and PHYS 121, or instructor permission

Introduction to the principles of Mechanics of Materials. Analysis of stress, strain, and deformation in solid materials. Development of the relationships between load, stress, and deformation in columns, shafts, and beams. Analysis and design of members under tension, compression, shear, torsion, and bending.

260 (5) Thermodynamics

Prereq: PHYS 121 and CHEM 140 and MATH 125 or permission of the instructor

Introduction to the basic principles of Thermodynamics, properties, processes and equations of state. First law analysis of closed and open systems; energy interactions, work and heat, steady flow devices. Second law analysis of closed systems; heat engines, refrigeration, Carnot cycle, entropy and energy. Introduction to power cycles.

ENGLISH (ENGL)**080 (5) Introduction to Applied Communication**

Extended Learning Only

Prereq: ENGL Open to all with high school level coursework

Prepares the student to write unified, coherent, grammatically correct paragraphs and essays.

090 (1-3) Spelling

A 1-3 variable credit course designed to help students to learn basic spelling patterns, spelling rules, and pronunciation in order to improve their spelling.

091 (1-3) Vocabulary

A variable credit course designed for the pre-college level reader and writer. It can be taken for 1, 2, or 3 credits depending on the time the student wants to commit toward improving vocabulary and vocabulary skills and the number of words and word parts that the student wishes to learn.

093 (1-3) Grammar Usage

English 093 is a variable credit mini-course is designed as a review of basic grammatical principles. The course emphasizes the application of these concepts in writing tasks.

094 (1) Sentence Combining

English 094 is a one-credit course designed to improve knowledge of sentence construction. Students are asked to identify the parts of sentences and to classify sentences by clause structure. Particular attention is paid to the improvement of writing style through sentence combining exercises.

095 (2-3) Paragraph Development

Prereq: Intended for below college-level writer. ENGL 095 is a variable (2 or 3) credit course designed to improve a student's ability to organize and write paragraph-length compositions. The course focuses on the parts of the standard paragraph and on the organization patterns, which can be used to develop paragraphs.

096 (2) Grammar, Punctuation, & Spelling

Focuses on sentence structure, parts of speech, spelling, and punctuation; taken in conjunction with English 97 (normally over two consecutive quarters) and passed with a 2.0 or higher will fulfill the same requirements as ENGL 098 and can be used in place of it for credit and as a prerequisite for ENGL 99.

097 (3) Paragraph Composition

Prereq: ENGL 096 with a grade of 2.0 or better Focuses on paragraphing skills and revision and has English 96 as a prerequisite; passed with a 2.0 or higher in conjunction with ENGL 96 (normally over two consecutive quarters) will fulfill the same requirements as ENGL 98 and can be used in place of it for credit and as a prerequisite for English 99.

098 (5) Basic Writing Skills

The writing process: notetaking, outlining, grammar, sentence construction, classifying and expressing information in the form of sentences.

099 (5) Introduction to Composition

Prereq: ENGL 097 or 098 with a grade of 2.0 or better or placement exam

Writing skills emphasizing unity, coherence, and adequate development of the paragraph, grammar and the control of serious sentence faults.

101 (5) Composition

– Exposition *GER-CM*

Prereq: ENGL 099 with a grade of 2.0 or better or placement exam.

Writing and analyzing unified, coherent expository essays that support and develop a thesis; using the modes of development (the rhetorical devices) appropriately in compositions; recognize writing as a process; and incorporating secondary sources in essays using the MLA and/or APA styles of documentation.

102 (5) English Composition

– Writing About Literature *GER-CM*

Prereq: ENGL 101 with a grade of 2.0 or better Writing expository and argumentative essays based upon literary readings and studies.

103 (5) Composition

– Argumentation & Research *GER-CM*

Prereq: ENGL 101 with 2.0 grade or better Writing and analyzing argumentative essays that logically support and develop a claim (thesis); writing a research paper using the MLA or APA style of documentation; researching data using the latest research tools available, including electronic data bases and the Internet; becoming information competent.

104 (1-3) College Vocabulary

Prereq: Intended for college level reader/writer. A variable credit course designed for the college-level or upper-level pre-college reader and writer. It can be taken for 1, 2, or 3 credits depending on the time the student wants to commit toward improving vocabulary and vocabulary skills and the number of words and word parts that the student wishes to learn.

105 (1-3) Writing I, II, III

Prereq: ENGL 099 with a 2.0 grade or better A variable 1-3 credit course reviewing the basic principles involved in organizing essay-length compositions. It is intended for students who passed ENGL 099 with a 2.0 but feel they need more writing practice before attempting English 101 or for returning students who wish to review the principles of formal writing. (This course may not be repeated for credit.)

111 (5) Technical Writing *GER-CM*

Prereq: ENGL 101 with a grade of 2.0 or better Learn the principles of organizing, developing and expressing technical information. Study rhetorical patterns common to scientific and technical disciplines. Also understand technical writing conventions as they apply to students during their academic careers.

112 (5) English Grammar *GER-HM*

A study of traditional grammar for students who have demonstrated proficiency in writing but who want to examine the theory, history, and analysis of English syntax.

113 (5) Research for the 21st Century

Prereq: Eligibility for ENGL 101

This course develops a framework for research in the online environment and helps students to build skills and techniques for success as an online learner. Through a quarter-long research project on a global issue, participants will examine various strategies for locating, evaluating, and applying information resources in the research process with attention to information issues like intellectual property, censorship and freedom of information.

114 (2) Library Research Methods

Introduction to the skills, concepts and strategies required to effectively use the library and information for academic success. Includes concepts required for effective research that can be applied in a variety of fields of study.

125 (5) Applied Communications

Offered through Extended Learning

Use the computer to write at least five essays about real-life problems and situations; develop information competency; learn various critical thinking skills, including perceiving, analyzing, and expressing a problem, seeking solutions; work in groups wherein students will have the opportunity to consider diverse points of view and gain experience articulating their own thought processes.

200 (5) Introduction to Literature *GER-HM*

Literary works and techniques through analyses of representative fiction, drama and poetry emphasizing the relationship of content and expression through form.

201 (5) Introduction to Fiction

GER-HM

Study and critical evaluation of the art of fiction writing using English and American novels and short stories as a basis.

202 (5) Introduction to Drama

GER-HM

Form and expression of great works of the theater from Ancient Greece to the present.

203 (5) Introduction to Poetry

GER-HM

Course designed to familiarize students with form, content, and expression in poetry from ancient to contemporary times.

204 (5) The Bible as Literature

GER-HM

A course designed to show the themes, structures, and literary merits of the Bible.

205 (5) Introduction to Mythology *GER-HM*

A survey of mythologies from two or more cultures with some study of what myth is and how it informs literature. (Topics may vary.)

210 (5) Introduction to American Literature *GER-HM*

Celebrating the rich diversity of American voices, ENGL 210 focuses on the literary contributions of African Americans, Asian Americans, European Americans, Latinas/Latinos, and Native Americans and introduces the literary genres of poetry, fiction, drama, and essay as it explores the dominant themes that have shaped the American literary tradition.

211 (5) British Literature From 800 to 1660 *GER-HM*

To familiarize the student with the main types of literature written during the three specified periods in England: 800 to 1660.

212 (5) British Literature From 1660 to 1832 *GER-HM*

To familiarize the student with the main types of literature written during a specified period in England: 1660 to 1832.

213 (5) British Literature From 1832 to Present *GER-HM*

A study of representative works of literature, tracing ideas and trends in literary art from the late Romantic period through Victorian, Modern, Postmodern, and Postcolonial literature.

220 (5) Literature of U.S. Slavery & Abolition *GER-HM*

Study and analysis of slave narrative and other works written about and/or during the era of slavery in the United States, to provide a better understanding of the surrounding conditions and issues.

221 (5) American Literature: Early American *GER-HM*

Survey of American literature from its early origins to the Civil War.

222 (5) American Literature: Mid 19th Century to WWI *GER-HM*

Survey of American literature from mid-nineteenth century to World War I.

223 (5) American Literature: 20th Century to the Present

GER-HM

Survey of twentieth century literature to the present.

224 (5) American Literature: Comedy, Humor & Satire *GER-HM*

Theory and practice of comedy, humor and satire. Concentration on American humor, its distinctive characteristics and importance in American Literature.

230 (5) Women Writers: Voices from the International Mosaic

GER-HM

Emphasis on twentieth century women writers across the international spectrum.

231 (5) Creative Writing – Fiction, Poetry, Drama GER-HM
A creative writing course which instructs in structure, form, and content of fiction, poetry and plays.

232 (5) Creative Writing – Short Stories GER-HM
Writing short stories.

233 (5) Creative Writing – Poetry GER-HM
Writing poetry.

234 (5) Introduction to Shakespeare GER-HM
To familiarize the student with Elizabethan England and the three major types of Shakespearean drama: comedy, history and tragedy.

239 (5) World Literature GER-HM
Explores the rich diversity of world cultures through fiction, poetry and drama.

240 (5) Introduction to Linguistics GER-HM
Scientific study of language; linguistic analysis on word and sentence structures and the study of meaning; related topics include language and society, language change, language acquisition, and language teaching.

245 (5) Creative Writing: Special Projects
Concentrates on producing original writings in a specific genre. Each quarter will focus on a particular genre such as screenwriting, science fiction, mystery, play writing, or autobiography.

250 (10) Shakespeare Festival (same as THTR 255)
Familiarizes students with Shakespearean drama, elements of drama and elements of the theater. Students must attend the Ashland, Oregon Festival.

ENGLISH AS A SECOND LANGUAGE (ESL)

Six levels of non-credit ESL courses are offered in Literacy, Reading, Writing, Speaking, Listening/Observing, Literacy Technology & Job Readiness. CASAS tests are given for placement in appropriate course. Contact Basic Skills office under the Transition Education Division for individual course offerings. See ESL listing under "Adult Basic Education" in the PROGRAMS OF STUDY section for more information.

ENVIRONMENTAL SCIENCE (ENVR)

Also see *Natural Science (NSCI)*.

101 (5) Essentials of Environmental Science GER-NS (non-lab)
A non-lab introductory science course designed to develop the ability to critically analyze environmental problems. (non-lab)

105 (5) Environmental Geology GER-NS (same as GEOL 105)
A study of the interaction of humans and the Earth, with emphasis on geologic hazards, waste disposal, pollution, and geologic resources. Field trip required. Labs included.

140 (5) Western Water Problems GER-NS
Historical and contemporary exploration of the water resource and issues in the Western United States.

150 (5) Environmental Issues GER-NS
Topics of environmental concern covering a wide range of local, national and international case studies through an interdisciplinary investigation.

220 (5) Earth Resources & the Environment GER-NS (same as GEOL 220)
Prereq: GEOL 101 or GEOL 105 or ENVIR 105 recommended.
The study of earth resources, including geologic origin, environmental issues, mineral issues, mineral law, economics, and uses. Field trips required. Labs included.

FASHION MERCHANDISING (FASH)

160 (5) Introduction to Fashion Merchandising
Survey of the Fashion industry from early development to present. Students will analyze the interrelationships of the many different industries involved in the design, production, and distribution of all types of apparel and accessories.

162 (5) Fashion Design & Clothing Construction Analysis
Provides working knowledge of the design and construction skills valued in today's fashion marketplace. Students will develop the skills necessary to analyze, evaluate, and specify the quality of apparel design and production relative to consumer value.

163 (5) Consumer Textiles
Designed for those whose career direction will require knowledge of textiles as part of the professional prerequisites of the industry. Specific career fields include, but are not limited to, fashion merchandising, retailing, interior design, and fashion design. This study of textiles will provide in-depth information in the areas of fiber properties, yarn and fabric production, coloring, printing, finishing, and care/renovation of textiles.

FOOD SERVICE MANAGEMENT (FSM)

Courses offered through *Extended Learning programs only*.

102 (5) Equipment, Facilities & Maintenance
Creative planning for a merchandisable atmosphere at optimum cost.

103 (5) Nutrition & Menu Planning
Restaurant menu planning and nutritional considerations, with special emphasis on menu types and specializations.

105 (3) Quantity Food Preparation: Entrees Prereq: FSM 116
This course introduces basic terminology, principles, and methods for preparation of meat/meat alternatives and entrees. Participants will practice their skills and techniques of quantity cooking in a kitchen facility.

106 (5) Supervision & Management of Quantity Food Preparation II Prereq: FSM 101, 102 or 103, 104, 105
A study of food service supervision and management techniques with emphasis on advanced procedures in culinary arts.

109 (5) Personnel & Human Relations
Develop a knowledge of restaurant organizations, effective management techniques, employee motivation and training.

110 (5) Food & Beverage Cost Analysis Prereq: FSM 104
Techniques of controlling foods, beverages, supplies and equipment in a food service establishment.

112 (1) Introduction to Child Nutrition Program Management
Provides an introduction to child nutrition program management, including the history and evolution of child nutrition programs, legislation, state and federal regulations, program requirements, funding, and the benchmarks of a quality program

115 (1) Basic Nutrition
For school food service workers and potential supervisors. Includes nutrition as related to meeting dietary goals, preschool through Grade 12, modifying recipes, promoting nutrition through school lunches.

116 (1) Safety & Sanitation
Basic food safety and sanitation practices for school personnel. Microbiology as it relates to foodborne illness and prevention, agar plates, accident prevention, proper use of thermometer, housekeeping and personal hygiene, transporting and serving techniques, and being prepared for health inspector.

117 (1) Nutrition – Team Teaching
Provides methodology and techniques for team teaching nutrition for school food service workers. Topics emphasized are: review of nutrition, definition, needs, and goals of Child Nutrition Programs, resources and teaching aids, integration into curriculum.

118 (1) Healthy Edge
This course provides child nutrition services personnel with the basic knowledge and skills to implement the Dietary Guidelines for Americans successfully and effectively in child nutrition programs, using a total team approach.

121 (3) Quantity Food Production: Salads, Snacks & Sandwiches Prereq: FSM 116 or instructor permission
Provides the basic techniques for the ordering, preparing, handling, and storing of fresh produce and vegetables. Includes salad and sandwich preparation and presentation.

130 (3) Child Nutritional Needs for Diverse Populations
This course identifies special nutritional needs that must be considered when serving a diverse student population, including cultural, medical, physical, and developmental needs.

FOREIGN LANGUAGE

See *WORLD LANGUAGES*.

FOSTER PARENT EDUCATION (PARNT)

Offered through *Extended Learning only*.

100 (5) Introduction to Foster Parent Education
Designed to empower foster parents with the basic knowledge and skills to provide quality foster care.

105 (3) Independent Living for Foster Teens
Provides foster parents with skills needed to prepare foster teens to live independently.

106 (3) Behavior Management Prereq: H.S., GED or instr. permission
Exploration of constructive parenting practices, including finding ways to balance the need for nurture and structure. The focus is on learning to use behavior management skills as a way to prevent problems. Includes opportunities to explore how we can examine our own behavior as a way to understand the child's.

FRENCH

See *WORLD LANGUAGES*.

GENERAL EDUCATIONAL DEVELOPMENT (GED)

Non-credit GED courses are offered under Basic Skills through the Transitional Education Division. Courses offered are comprehensive Basic GED, Advanced GED, Educational Interview and individual subject areas, i.e. Math, English, Social Studies, English, Literature and Arts, and Science. See GED listing under "Adult Basic Education" in the PROGRAMS OF STUDY section for more information.

GEOGRAPHY (GEOG)

100 (5) Introduction to Geography GER-SS
Basic patterns of human occupancy of the earth; analysis of population, settlement, and resource-use problems; introduction to geographic theories pertaining to spatial organization, interaction, and environmental perception.

150 (5) Europe, The Americas, Australia/New Zealand GER-SS
An introduction to the rich variety of peoples, traditions, and landscapes in the geographic realms of Europe, Russia, North America, Middle America, South America and Australia New Zealand. Emphasis is on the origins an evolution of the diverse cultural heritages of these regions, their interactions with the world as a whole, and on present interaction between these peoples and their environments.

160 (5) Africa, Middle East & Asia GER-SS

An introduction to the rich variety of peoples, traditions, and landscapes in the geographic realms of Sub-Saharan Africa, North Africa, South West Asia, South Asia, East Asia, and South East Asia. Emphasis is on the origins an evolution of the diverse cultural heritages of these regions, their interactions with the world as a whole, and on present interaction between these peoples and their environments.

200 (5) Cultural Geography GER-SS

Patterns and systems of human occupancy of the world. Emphasis on cultural processes, dynamic change, functional relations, networks, and diffusion models.

205 (5) Introduction to the Physical Environment

GER-NS,SS • Field Trip required.

Major atmospheric, hydrologic, and geomorphic processes used to interpret the character, distribution, and human significance of different natural and human-altered environments.

207 (5) Economic Geography

GER-SS

The changing locations and spatial patterns of economic activity, including: the location of production in agriculture, manufacturing, mining, and goods and services; the economics of transportation; regional economic development, and the diffusion of technological innovations.

210 (5) Physical Geography (with Lab) GER-NS

The student will learn about the processes that produce natural physical landscapes and weather phenomena. The course should result in an enhanced appreciation of the landscapes of the world. Physical geography will introduce you to climatology, the science that deals with the study of the earth's weather systems and weather patterns, geomorphology, the science that deals with the study of landforms, their formation and change over time and biogeography, natural vegetation types and their distribution, as well as soils. Lab included.

■ GEOLOGY (GEOL)**100 (5) Earth Systems Science (Lab)** GER-NS

Introduction to the basic principles and processes in the evolution of the earth. Lab included.

101 (5) Physical Geology GER-NS

A study of dynamic processes which have culminated in the present earth surface configuration. Field trip required. Lab included.

103 (5) Earth History GER-NS

Study of earth formation through time. Includes field studies of time, rock and fossil relationships. Lab included.

105 (5) Environmental Geology

GER-NS (same as ENVIR 105)

A study of the interaction of humans and the Earth, with emphasis on geologic hazards, waste disposal, pollution, and geologic resources. Field trip required. Labs included.

120 (5) Geology of the National Parks GER-NS

Introduces the student to basic geologic processes and history, using the variety of features preserved in our National Park and Monument system. Labs included. Field trips required.

140 (5) Principles of Field Mapping

Prereq: GEOL 101 or instructor permission

Interpretation of topographic, geologic, and aerial photo maps with applications in constructing geologic and base maps from field data. Lab included.

208 (5) Geologic Development of the Pacific Northwest GER-NS

Prereq: GEOL 101 or GEOL 103 or permission of instructor

A study of the current geologic interpretations of the major rock formations and geologic structures of the Pacific Northwest. Includes study of mineral resources, environmental issues, and fossils pertinent to Pacific Northwest Geology. Field trips required. Labs included.

220 (5) Earth Resources & the Environment GER-NS

(same as ENVIR 220)

Prereq: GEOL 101 or GEOL 210 or ENVIR 210 recommended

The study of earth resources, including geologic origin, environmental issues, mineral law, economics and uses. Field trips required. Labs included.

282 (5) Volcanoes & Their Hazards

The comparative study of shield and composite volcanoes, volcanic processes and hazards. Lab included. Field trips required.

283 (5) Regional Geology

Study of the geologic formations, structures, and geologic history that create the landscapes of a selected region. Labs and field trips included.

■ GERMAN

See WORLD LANGUAGES.

■ HEALTH SCIENCE (HSCI)**101 (3) Foundations of Allied Health**

Introductory course for students considering careers in allied health. Covers the basics of allied health care roles and responsibilities. Course includes state required AIDS/HIV curriculum, HIPPA training, customer service, medical terminology and documentation.

105 (5) School Health Care

Offered through Extended Learning

Course will include infection control and safety, infectious diseases, common school health problems, and health issues specific to K-12 for school health care providers.

106 (5) School Health Care II

Offered through Extended Learning

Prereq: Successful completion of HSCI 105

Examination of staff roles in a school health care setting; identification of symptoms of common childhood illnesses and procedures for handling these illnesses and other health-related issues.

111 (5) Nursing Assistant Training

Prereq: Reading placement test with a minimum score of READ 75

Essentials of patient care in an extended care facility primarily designed for nursing assistants who must meet state certification requirements. Includes a minimum of seven hours of AIDS education.

114 (3) Therapeutic Communication in Healthcare Settings

Prereq: placed for English 101

Total Clock Hours: 30 (theory)

The study of communicating with a diverse client population across the lifespan. Includes information management, interpersonal relationships, group process and effective techniques to work with clients and coworkers in a variety of settings.

116 (4) Pharmacology for Allied Health

Prereq: CHEM 101, BIOL 240/1, BIOL 250/1, MICRO 201

Total Clock Hours: 40 (theory)

Administration of medication, types of drugs, routes of administration and related laws. Computation skills in dosage calculation are emphasized. Includes laboratory practice of computation, medication administration and the use of related technology.

119 (5) Human Health & Disease GER-NS

A systematic overview of human anatomy, physiology and pathology. Intended for anyone interested in understanding health and disease interrelationships. A laboratory course for non-science majors.

140 (5) Contemporary Health Science Problems GER-NS

Introduction to contemporary issues related to the impact of technology on human health, including reproductive manipulation, birth defects, nutrition, organ research, immunity to disease, inheritance, genes, eugenics, and eugenics. Laboratory course for non-science majors.

150 (3) Biomechanics of Exercise

An introductory course providing a basic understanding of the mechanical principles of human movement and how these mechanical principles relate to human health and performance.

151 (5) Personal & Community Health GER-NS

Contemporary issues and trends in modern human health.

152 (3) Nutrition & Exercise

A course designed to familiarize the personal trainer with the fundamentals of exercise and nutrition for health assessment and health prescription.

156 (5) Exercise Physiology for the Personal Trainer

A course designed to equip the personal trainer with the proper application of physiologic principles as they relate to exercise. Examines principles related to bioenergetics, nutrition, hormones, and the pulmonary, cardiovascular, hormone and neuromuscular systems.

161 (5) Human Nutrition GER-NS

Introduction to the role of nutrition in human health with respect to essential nutrients, factors that affect eating habits, food advertising, nutrition and disease and establishing a healthy lifestyle.

200 (5) Human Stress – Its Nature & Control GER-NS

Examines why human stress exists and identifies the causes and affects of stress while exploring specific strategies and techniques to control stress and use it for growth.

210 (5) Wellness GER-NS

A comprehensive study of human wellness including adequate fitness, nutrition, stress management, disease prevention, sexual wellness, spirituality, smoking cessation, substance abuse, weight control, cardiovascular endurance assessment, and metabolic pathways and systems. Lab included.

235 (4) Issues & Trends in Healthcare Management

Prereq: HSCI 114, HSCI 116

Total Clock Hours: 40 (theory)

Management and leadership theories as applied to allied health settings. Explores challenges, issues and trends in healthcare to include skill building for managing care, leading groups, and resolving conflict within organizations. At the end of the quarter, the student will be expected to complete a professional healthcare management portfolio.

278 (8) Emergency Medical Technician – Basic

Offered at military sites through Extended Learning

Prereq: CPR Certification as AHA "Healthcare Provider" or Red Cross "Professional Rescuer"

Learn and develop skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized service. The student will be capable of recognizing and assessing the nature and seriousness of a patient's condition or injuries.

■ HISTORY (HIST)**101 (5) History of Civilizations I**

GER-SS

Examines the growth and development of various civilizations from the Stone Age to 1100. Emphasis is on political, economic, religious and cultural similarities and differences among these civilizations.

102 (5) History of Civilizations II

GER-SS

Examines the development and decline of various civilizations from the Renaissance to 1815. Emphasis is on the ideas which spawned religious, economic, political and scientific revolutions and their impact on various civilizations.

103 (5) History of Civilizations III GER-SS

Examines the development of the modern nation state from 1815 to the present. Emphasis is centered on political, economic, religious and social developments and their subsequent impact on Third World nations.

168 (5) Vietnam War as History*GER-SS*

An in-depth look at the historical lines of thought from three cultural perspectives which culminated in the Vietnam War. Emphasis is on the economic, religious and political aspects of each culture. Personal recollections and media accounts are also used.

207 (5) Historical Study Abroad

A historical overview of the economic, religious, social, legal, educational and artistic make up of a city, culture or country other than the United States.

230 (5) Concise History of Science & Technology*GER-SS*

A survey course emphasizing salient aspects of the evolution of science and technology and their impacts on society from prehistoric to modern times.

241 (5) United States History: Colonial Times to 1840*GER-SS*

A survey of the economic, social, political and diplomatic history of the United States from the period of European expansion to 1840.

242 (5) United States History: 1840-1900*GER-SS*

A survey of the economic, social, political and diplomatic history of the United States from 1840 to 1900.

243 (5) United States History: 1900 to Present*GER-SS*

A survey of the economic, social, political and diplomatic history of the United States from 1900 - present.

244 (5) United States History: 1939 - Present*GER-SS*

A survey of the economic, social, political and diplomatic history of the United States from 1939 to the present.

260 (5) History of Russia & the Soviet Union*GER-SS*

Explore the development of the Russian State from 700 AD to the present. Emphasis is on the political, economic and religious ideas which shaped the Russian outlook and eventually culminated in the rise and fall of the Soviet Union.

264 (5) History of the Pacific Northwest*GER-SS*

History of Washington and the Pacific Northwest: exploration, settlement, economic development, growth of government and social institutions.

270 (5) Introduction to the Far East*GER-SS*

A survey of the major social, political and economic trends in the Far East with emphasis since 1840.

272 (5) Survey of Middle East History*GER-SS*

A survey of Middle East history from the 5th Century A.D. to the present, including the development of the modern states after World War II.

277 (5) The Cold War*GER-SS*

An in-depth look of the post-Second World War era from 1945 to 1989. Emphasis is on the political, economic, and religious aspects of the Cold War and its impact on emerging Third World nations.

280 (5) Introduction to Chinese Civilization*GER-SS*

A survey of Chinese civilization from earliest time to today with major emphasis on political, social and economic history since 1912.

284 (5) Introduction to the Balkans*GER-SS*

A survey course in the history of the Balkans, a region that cradles some of the worlds' oldest civilizations and forms a crossroads between Europe and Asia. Emphasis placed on post-1800 political, socioeconomic and cultural developments.

■ HOMELAND SECURITY (HSEM)**HSEM 102 (5) Introduction to Homeland Security Emergency Management**

Designed to provide student with exposure to new and developing theories, practices, and technology in emergency management. Prepares homeland security professionals to implement protective measures without compromising individual rights and freedoms. Builds familiarity with the distinctive qualities of the various disasters one may face as a citizen leader or first responder.

HSEM 110 (5) Homeland Security Incident Management

This course introduces the Incident Command System (ICS) and provides the foundation for higher-level ICS training. This course describes the history, features, and principles and organization structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS). (Course will meet ICS 100/200 requirements.)

HSEM 120 (5) All Hazards Emergency Planning

This course is designed to introduce students in developing an effective emergency planning system. This course offers training in the fundamentals of the emergency planning process, including the rationale behind planning. Emphasis will be placed on hazard/risk analysis and planning team development. Other topics, such as Continuity of Operations (COOP), NIMS compliance, and contingency planning for areas such as Special Needs (Vulnerable Population) or Animal Sheltering are discussed. The Emergency Support Functions and other changes made by the National Response Plan and the State CEMP are discussed also.

HSEM 130 (2) Technology in Emergency Management

This course will cover the importance for emergency management professionals to understand the internet resources available and how to use them. It will provide overviews of WebEOC, using technology with training and exercises, reverse 911 notification systems, video conferencing/downlinks, GIS capabilities, etc.

HSEM 160 (5) Emergency Response Awareness to Terrorism

Prepares student to enter and advance in the field of emergency management through the acquisition of specialized knowledge of disaster planning, preparedness, emergency response, mitigating and recovery. Covers the new National Incident Management System (NIMS), Weapons of Mass Destruction (WMD) Awareness, Proper Protective Equipment (PPE), Operational Security (OP-SEC), Decontamination Awareness and the new National Response Plan (NRP). Creates a solid foundation in planning.

HSEM 210 (5) Training, Exercise Design and Evaluation

This course is designed to introduce the student to the fundamentals of exercise design and to prepare you to design and conduct a small functional exercise for an organization. The course includes an overview of different learning styles, and effective methods for providing training to employees. Advantages and disadvantages of different training media and associated costs. It addresses: the value of conducting exercises, the components of a comprehensive exercise program, the exercise development process and tasks, organization of the design team, exercise documentation, the steps in designing an exercise, and the evaluation process based on the Homeland Security Exercise Evaluation Program. Students will design an exercise based upon a community's emergency plans and conduct an in class functional exercise.

HSEM 220 (3) Developing and Managing Volunteer Resources

The course provides procedures and tools for building and working with voluntary organizations. Topics include: Benefits and challenges of using volunteers; building a volunteer program; writing job descriptions; developing volunteers through recruitment, placement, training, supervision, and evaluation; coordinating with voluntary agencies and community-based organizations, and special issues including spontaneous volunteers, liability, and stress.

■ HUMAN DEVELOPMENT (HUMDV)

Human Development courses are usually offered at one of our Extended Learning sites. Comparable courses are listed also under Psychology.

095 (3) Job Hunters

Course includes job search strategies, researching labor market resources, preparing a resume, applications and cover letters and developing effective interviewing skills.

100 (1) Effective Relationships

This course provides students with group experiences emphasizing the affective domain of human growth. It focuses on the varied aspects of people=s emotions, feelings, values, and the relationship of these to intellectual pursuit and making life more meaningful.

101 (2) Personal Effectiveness Seminar

Addresses issues of personal development for adults, including defining stress and anger, identifying personal triggers and responses, understanding change, and designing and implementing healthy coping strategies.

102 (2) Human Potential Seminar

Provides a set of experiences through which students learn to identify their potentialities, and to put these potentialities to work in their lives. It is designed to increase self-esteem, intra-personal awareness and inter-personal affectivity. The seminar takes place in a small group setting and involves structured group activities.

103 (15) PierceWorks!**A Career Transition**

A 7-week career transition course to assist individuals with components of career development and human relations. This course empowers students to explore careers and career clusters and make informed educational and career decisions. Students analyze interests, skills, personality, and attributes and use this information in the career selection process. Students use interest inventories and computer software to explore career opportunities available to them and link personal interests with related career fields. Activities enable students to increase self-awareness and develop the skills necessary to successfully plan for postsecondary education and the workplace. Basic job search skills include contacting employers, writing, practicing interview skills. An emphasis is placed on developing appropriate skills necessary for success in the workforce. These employability skills include such areas as: teamwork, dependability, punctuality, attitude and relationship skills on the job.

105 (2) Community Responsibility

Encourages student awareness of responsibilities in promoting a safe, orderly, and healthy community.

106 (3) Life Skills for the Twenty-First Century

Students explore ideas and applications related to living and working in the twenty-first century.

110 (7) Transition Issues for Offenders

Addresses transition issues for adult offenders, including communication skills, healthy relationships, living single, parenting skills, work relations and healthy lifestyles.

115 (3) Victim Awareness

Addresses recidivism issues of adult offenders, including identifying victims, recognizing feelings toward victims and the impact of crime upon those victims, families, and the community as a whole.

120 (3) Human Relations*Prereq: GED or High School Diploma*

Survey of workplace skills, including communication, team building, problem solving, and leadership. Emphasis on concepts of attitudes, perception, motivation, and ethics.

■ HUMANITIES (HUMAN)

101 (5) Western Thought & Culture I GER-HM

A survey of Western cultural ideas and expression from ancient times through the Middle Ages. Topics include art, architecture, music, literature, philosophy, and religions.

102 (5) Western Thought & Culture II GER-HM

A survey of Western cultural ideas and expression from the Early Renaissance through the 17th Century. Topics include art, architecture, music, literature, philosophy, and religions.

103 (5) Western Thought & Culture III GER-HM

A survey of Western cultural ideas and expression from the 18th Century through modern times. Topics include art, architecture, music, literature, philosophy, and religions.

105 (5) Black Thought & Culture GER-HM

Beginning with African traditions and closing with a look at contemporary issues, this course will examine the cultural heritage of African Americans in relation to their language, literature, fine arts, music, religion and philosophy.

106 (5) Ethnic Thought & Culture GER-HM

A comparative study of art, literature, and music representing various ethnic groups in America, and investigation of various issues surrounding ethnic identities.

107 (5) Latin American Thought & Culture GER-HM

Examines Latin America through the lens of the humanities. Students will explore the literature, film, music and are of Latin America and how it has been shaped by cultural and geographical diversity, domestic and international politics, religion, social structure and economics. Team work and research skills will be developed.

108 (2) Asian Thought & Culture

A general study of Asian culture and society, past and present.

120 (5) Introduction to Folklore GER-HM

This course introduces students to the discipline of folklore through an exploration of its history, its subject matter and its methods. Case studies and research will focus on contemporary folk life and the study of living people.

140 (5) Conversations in Conflict Studies

Prereq: ENGL 99 and READ 75 or placement at college level English and Reading
Takes a critical look at the tensions and dynamics of race, ethnicity, gender, and sexual orientation in our society. Class discussion, speakers, and topical literature will form the activities.

201 (5) Ideas, Issues & Inquiry in the Humanities GER-HM

Prereq: Eligibility for ENGL 101

Exposes students to works in the literary, performing, and visual arts. Students identify common themes in the arts, analyze works representing diverse perspectives, and investigate the political, social, and historical contexts of works. A broader understanding is encouraged through the exploration and synthesis of outside sources using research methods.

204 (5) American Popular Culture GER-HM

This course examines various theories of popular culture and applies these theories to various aspects of American culture, such as mass media, sports, fashion, and cultural stereotypes.

210 (5) American Cinema & Society GER-HM

Explores the relationship between the themes, major genres, and production of Hollywood cinema, and American social, political, and economic history from the early 1900s to the present.

240 (5) World Religions GER-HM

Survey of the world's five major religions: Hinduism, Buddhism, Islam, Judaism, and Christianity. Exploration of the basic tenets, origins and evolution of each religion; reflection on the influence they have had on history, culture and the arts.

■ INTERDISCIPLINARY STUDIES (INTS)

107 (5) Introduction to International Studies GER-SS

An introduction to global issues emphasizing the integrated and increasingly interdependent nature of the world, including: historical, political, economical, environmental and philosophical issues.

115 (2) AIDS & Drug Awareness Training

AIDS and drug awareness is designed to acquaint students with epidemiology, etiology, transmission, prevention, counseling, legal and ethical issues, cultural-social-psychological issues, and resources to deal with the AIDS and drug problems.

140 (5) Contemporary Issues in International Studies GER-SS

Contemporary issues facing a visiting foreign professor's homeland, including but not limited to: historical, geographical, demographic, political, economic, environmental, and social/cultural issues.

■ INTERNATIONAL EDUCATION (IE)

Non-credit and/or below-college level Intensive English and TOEFL Prep courses are offered through our International Education program. See "International Education" in PROGRAMS OF STUDY section for information.

■ JAPANESE

See WORLD LANGUAGES.

■ JOURNALISM (JOURN)

101 (5) Introduction to Mass Media GER-HM

An analysis of structure, trends and the technology of American mass media industries, including print media, and how they impact individuals, shape society, and influence culture.

102 (5) Introduction to News Writing GER-CM

Prereq: ENGL 101 with a grade of 2.0 or better
A study of the basic forms and styles of various news writing techniques and mechanics. Writing exercises in basic news writing, as well as work in news gathering, interview techniques, copy assimilation, copy editing, headline writing and other roles of the reporter.

103 (1-5) Introduction to Feature Writing GER-HM

Prereq: JOURN 102
A study of the basic forms and styles of various news writing techniques and mechanics. Writing exercises in basic news writing, as well as work in news gathering, interview techniques, copy assimilation, copy editing, headline writing and other roles of the reporter.

110 (5) Publications Design

Prereq: Basic computer literacy and Microsoft Word recommended

An introduction to the basics of designing and producing documents for such publications as newsletters, magazines, and tabloid newspaper pages through the use of basic desktop publishing and digital imaging software.

111/211abc (1-5) College Newspaper: Reporting & Editing

Practical experience in producing the college newspaper. Students may pursue specialty areas of interest such as writing, copyediting, desktop publishing, market research, advertising.

112/212abc (1-5) Newspaper Photojournalism

Practical experience in shooting, developing photos for the school newspaper. Students should already have a basic working knowledge of photography.

120 (5) Introduction to Broadcasting

A comprehensive study of the styles and techniques of radio and television broadcasting with an emphasis on writing for the media.

125 (5) The Documentary: A Social Force

Throughout history, the documentary film has been a major social force that has moved us, amused us, manipulated us and inspired us. Using viewings and group discussions, this class examines the history and genres of the non-fiction film and the social impact of modern documentaries.

210 (5) Photojournalism

Prereq: 35 mm. camera

A study of news photos and great photojournalists. Students will evaluate photos, including their own, develop photo essays, and learn how to present the photos in an attractive layout. Access to a camera is required.

211abc (1-5) College Newspaper: Reporting & Editing

See JOURN 111

212abc (1-5) Newspaper Photojournalism

See JOURN 212

■ KOREAN

See WORLD LANGUAGES.

■ LEGAL STUDIES (LAW)

205 (5) American Legal System GER-SS

Introduction to the nature of law and the operation of the legal system; includes discussion of representative substantive law and analysis of the interaction between legal institutions and interest groups.

206 (5) Business Law GER-SS

Introduction to the nature of law and the resolution of disputes in the court system, and overview of law typically relating to the operation of businesses from the perspectives of their owners, managers, employees, customers and suppliers; primary emphasis is on the law pertaining to various types of contracts.

■ MATHEMATICS (MATH)

042 (3) Fractions, Decimals & Percents

Fundamental operations using whole numbers, fractions, decimals, ratios, proportions, and percents with their applications.

051 (5) Fundamentals of Arithmetic

Prereq: Satisfactory placement test score or Instructor permission

Fundamental operations with whole numbers, fractions and decimals. Solve problems including percent, ratio and proportion, measurement and geometric figures. Introduction to signed numbers, measures of center, and interpretation of basic data graphs.

052 (5) Applied Arithmetic

Offered through Extended Learning only

Fundamental operations with whole numbers, fractions and decimals. Solve problems including percent, ratio, and proportion, measurement and geometric figures.

054 (5) Prealgebra

Prereq: Satisfactory placement test score or MATH 51 with a grade of at least 2.0 or instructor permission.

Review operations with fractions, decimals and percents; operations with signed numbers. Simplify algebraic expressions. Solve linear equations. Solve a variety of application problems. Introduce square roots, exponents, and coordinate graphing. Determine area, perimeter, and volume. Calculate statistical measures of center; interpret graphs.

058 (3) Introduction to Algebra Part I

Prereq: Satisfactory placement test score or Math 51 or Math 54 with a grade of at least 2.0 or instructor permission

Basic operation with polynomials, rational expressions, solving linear equations and inequalities, solving quadratic equations by factoring, applications. Math 058 and Math 059 together are equivalent to Math 60.

059 (2) Introduction to Algebra Part II

Prereq: MATH 058 or instr. permission

Coordinate system, linear graphs, system of equations, expressions and equations containing radicals. Math 058 and Math 059 together are equivalent to Math 060.

060 (5) Introduction to Algebra

Prereq: Satisfactory placement test score or MATH 051 or MATH 054 with a grade of at least 2.0 or instructor permission

Basic operations with polynomials, rational and radical expressions; solve linear equations and quadratic equations, applications, linear graphs, and systems of linear equations.

069 (5) Applied Algebra

Offered through Extended Learning only
Prereq: Satisfactory completion of MATH 052 or instructor permission

Perform basic operations with polynomials, rational, and radical expressions. Solve linear and quadratic equations and graph linear equations.

095 (5) Intermediate Algebra with Modeling

Prereq: Satisfactory placement test score or MATH 59 or MATH 60 with a grade of at least 2.0 or instructor permission

Intermediate algebra taught in context, focusing on the use of linear, quadratic power, and exponential functions to model and help solve problems encountered in the real world. Applications may be drawn from the social sciences, biology, ecology, economics, or other disciplines. Technology is used to enhance understanding of algebraic concepts. This course serves as an alternative to MATH 98 (Intermediate Algebra) for students who need only Math 107, Math 281, or selected other quantitative skills courses.

098 (5) Intermediate Algebra

Prereq: Satisfactory placement test score or MATH 60 or MATH 059 with at least a grade of 2.0 or instructor permission

Properties of the real number system, polynomials, rational and radical algebraic expressions, linear and quadratic equations, linear inequalities, systems of linear equations, exponents, graphs and applied problems.

100 (3) Mathematics for the Trades

Offered through Extended Learning
College mathematics including basic algebra, plane geometry, triangle trigonometry, linear and quadratic equations, logarithms, functions, and graphing with emphasis on solving real-world problems faced by workers in the trades.

107 (5) Intro to Contemporary Mathematics GER-NS, QS

Prereq: MATH 95 or 98 or equivalent, with a grade of at least 2.0 or placement test score above MATH 098

Contemporary mathematics applied to a variety of fields. Instructor chosen topics will focus on graphical and formula derived solutions, statistics, applied problems, and communicating solutions. Topics may include management science, statistics, social choice, patterns, and financial applications.

114 (5) Applied Algebra, Geometry & Trigonometry

GER-NS, QS

Prereq: Math 98 or equivalent with at least a 2.0 or placement test scores above Math 098

Linear, quadratic, logarithmic, exponential, and trigonometric functions and their applications. Interpretation and display of information using rectangular, polar, and logarithmic coordinate systems. Right triangle and unit circle trigonometry. Vector operations using real and complex numbers. Solutions to systems of linear equations.

121 (5) Precalculus I GER-NS, QS

Prereq: MATH 98 or equivalent with a grade of at least 2.0 or placement test scores above Math 098

Families of functions, their properties, graphs and applications. Functions include: polynomial, rational, exponential, logarithmic functions and combinations of these. Solve related equations and inequalities. Data analysis, introductory mathematical modeling. Develop competency with a graphing calculator.

122 (5) Pre-Calculus II GER-NS, QS

Prereq: MATH 121 with a grade of at least 2.0 or instructor permission

Families of trigonometric functions, their inverses, properties, graphs and applications. Trig equations and identities. Laws of sines and cosines. Systems of equations. Polar coordinates and graphs. Elementary vector operations.

124 (5) Analytic Geometry & Calculus I GER-NS, QS

Prereq: MATH 121 and MATH 122 with a grade of at least 2.0 or instructor permission

Families of algebraic and transcendental functions and their derivatives. Limits, including indeterminate forms. Applications of differential calculus. Anti-derivatives.

125 (5) Analytic Geometry & Calculus II GER-NS, QS

Prereq: Math 124 with a grade of at least 2.0 or instructor permission.

Fundamental Theorem of Calculus. Definite and indefinite integrals. Methods of integration. Applications of integration. Improper integrals. Introduction to first order differential equations.

126 (5) Analytic Geometry & Calculus III GER-NS, QS

Prereq: MATH 125 with a grade of at least 2.0 or instructor permission

Sequences and series. Introduction to vector calculus and vector functions. Calculus of polar coordinates.

156 (5) Finite Mathematics

GER-NS, QS

Prereq: MATH 98 or equivalent with a grade of at least 2.0 or placement test score above MATH 098

Linear, polynomial and rational function models. Exponential and logarithmic functions. Mathematics of finance, matrices, linear programming, set operations, and probability.

157 (5) Elements of Calculus

GER-NS, QS

Prereq: MATH 121 or 156 with a grade of at least 2.0 or instructor permission.

Concise course in calculus. Differential and integral calculus of functions with an emphasis in social science, business, and economics applications.

170 (5) Structure of Elementary Mathematics 1: Number Systems GER-QS

Prereq: MATH 095 or MATH 098 or equivalent with a grade of at least 2.0 or placement test score above MATH 98 and eligible for ENGL 101 and Reading 101

The first of three courses for prospective elementary teachers focusing on the mathematics underlying modern elementary school math. Topics include: number systems, models for operations, problem-solving techniques, and a variety of instructional approaches. Emphasizes deep conceptual understanding of content, connections among topics, and communication of mathematical ideas. Appropriate technology is incorporated.

171 (5) Structure of Elementary Mathematics 2: Geometry & Measurement GER-QS

Prereq: MATH 170 with a grade of at least 2.0 or instructor permission

This is the second of three courses for prospective elementary teachers focusing on the foundation underlying modern elementary school math. Topics include geometry, measurement, and numeric and algebraic concepts. A variety of applications are included. This course emphasizes deep conceptual understanding of content, connections among topics, and communication of mathematical ideas. Appropriate technology is incorporated.

172 (5) Structure of Elementary Mathematics 3: Statistics & Probability GER-QS

Prereq: MATH 170 with a grade of at least 2.0 or instructor permission

This is the last of three courses for prospective elementary teachers focusing on the foundation underlying modern elementary school math. Topics include algebraic and numeric topics, functions, and graphs; collection, display, analysis, and interpretation of data; probability of simple and compound events; and making and testing conjectures using statistics and probability. This course emphasizes deep conceptual understanding of content, connections among topics, and communication of mathematical ideas. Appropriate technology is incorporated.

205 (5) Linear Algebra

Prereq: MATH 224 with a grade of 2.0 or better or instructor permission.

Applications and techniques of Linear Algebra including systems of equations, vector spaces, matrix operations, linear transformations, eigenvalues, eigenvectors, and characteristic polynomials. Introduction to appropriate technology and elementary proofs.

210 (5) Discrete Math

GER-NS, QS

Prereq: MATH 122 with a grade of 2.0 or higher or instructor permission or placement test score above MATH 122

Discrete mathematical structures centered around elementary logic, methods of proof, set theory, basic counting, mathematical induction, recursion, and their applications in computer science.

224 (5) Multivariate Calculus

GER-NS

Prereq: MATH 126 with a grade of 2.0 or better or instructor permission

Functions of several variables. Partial derivatives. Multiple integrals. Vector fields. Applications of partial derivatives and multiple integrals. Applications of Green's, Stokes', and Divergence Theorems.

238 (5) Differential Equations

Prereq: MATH 224 and MATH 205 with a grade of at least 2.0 or instructor permission

First order differential equations and applications. An introduction to higher order differential equations, power series solutions, Laplace transforms, numerical methods, and systems for ordinary differential equations.

281 (5) Introduction to Statistics

GER-NS, QS

Prereq: MATH 95 or 98 or equivalent with a grade of at least 2.0 or placement test score above MATH 098

Summarizing and describing all levels of data; central tendency, dispersion, and skewness; probability; discrete and continuous probability distributions; sampling methods; hypothesis testing using the normal, Student-t, and F distributions; linear correlation and regression; and the Chi-square distribution.

■ MICROBIOLOGY (MICRO)**110 (5) Introduction to Clinical Microbiology**

Prereq: BIOL 101 and CHEM 100 or first year standing in Veterinary Technology Program

An introductory overview course which places special emphasis upon the clinical microbiology concepts and techniques needed for students entering clinical fields such as veterinary technology and medical laboratory technology. Lab included.

201 (5) General Microbiology

GER-NS

Prereq: BIOL 101 and CHEM 100 or instructor permission.

Diversity, structure, and physiology of beneficial and harmful microbes. Laboratory practice in identification of microbial species through culturing, staining, and biochemical testing. Includes laboratory.

■ MILITARY SCIENCE (MSCI)

Army ROTC courses held in conjunction with Pacific Lutheran University (PLU).

111 (2) Basic Officership I

Prereq: Instructor permission

An introduction to the officership environment. Includes an introduction to military science; influential legislation and ROTC, roles of the Army, and special programs associated with ROTC.

112 (2) Military Communication Skills

Prereq: Instructor Permission

Development of written and oral communication skills for the military leader. Practical application through student participation, presentations, and writing projects.

113 (5) Introduction to Military Operations

Prereq: Instructor permission

Highlights management and control of lower-echelon units, tactical movement/deployment and communications.

211 (2) Introduction to Leadership

Prereq: Instructor permission

An introduction to Army values and leadership dimensions and basic fundamentals of Army map reading for second-year military science students. Two labs included.

212 (2) Leadership & Teamwork I

Prereq: Instructor permission

Through a series of films, books, essays and discussions, the student is introduced to troop-leading procedures and planning, and explores military value sets and ethics practiced within the profession of arms. Includes Leadership and Field Training Exercises.

213 (2) Leadership & Teamwork II

Prereq: Instructor permission

Through a series of classroom simulations, participants are evaluated on their potential as leaders and managers. Includes organizational behavior, leadership theories, management competencies, communication skills and physical fitness. Includes three (3) Leadership Labs and one (1) Field Training Exercise (Spring).

217 (1) Army Conditioning

Prereq: Instructor permission

A fitness program for students to assist them in achieving the Army standard of physical fitness. Required prior to attendance at camps, air assault or airborne schools.

■ MUSIC (MUSIC)

100 (5) Introduction to Rock & Roll GER-HM

Focuses on Rock and Roll as a language of music from a listener's perspective. Listening skills are exercised and become the vehicle through which specific rock music concepts are examined. Some social, biographical, and historical data covered. No musical previous experience necessary.

101 (5) Introduction to Classical Music GER-HM

A general survey course designed to introduce students to music from the following periods: Medieval, Renaissance, Baroque, Classical, Romantic, and Twentieth Century. Relevant cultural, biographical, and historical data are covered that pertains to music and its performance. Listening skills are exercised and become the vehicle through which specific classical music concepts are examined. No previous music experience necessary or expected.

103 (5) Introduction to Jazz GER-HM

A general survey course designed to introduce students to jazz music from the following periods: ragtime, the blues, New Orleans Dixieland, Chicago Dixieland, stride piano, boogie-woogie, swing, bebop, cool, hard bop, funky, third stream, free jazz, fusion, neoclassicism, Latin jazz. Relevant cultural, biographical, and historical data is covered that pertains to jazz music and its performance. Listening skills are exercised and become the vehicle through which specific jazz music concepts are examined. No previous music experience is necessary or expected.

105 (5) American Popular Music GER-HM

Discover the roots of American popular music through a survey of popular song, blues, jazz, country and rock and roll styles, and the historical and social elements that impacted their development. Current popular music trends will be studied as extensions of or responses to past styles.

107 (2.5) Audio Production I: Beginning

An introductory, hands-on course that covers the basics of midi sequencing, sound reinforcement, microphone construction and application, signal processing equipment, and analog multi-track recording.

108 (2.5) Audio Production II: Intermediate

Prereq: MUSIC 107

An intermediate, hands-on course that covers midi sequencing, sound reinforcement, microphone construction and application, signal processing equipment, and analog multi-track recording.

109 (2.5) Audio Production III: Advanced

Prereq: MUSIC 107 and 108

An advanced, hands-on course that covers midi sequencing, code synchronization, sound reinforcement, microphone construction and application, signal processing equipment, analog multi-track recording and digital multi-track recording.

110 (5) Music Theory I (Music Fundamentals) GER-HM

A music theory course intended to facilitate the acquisition of music literacy and related ear-training skills. In addition, it covers the fundamentals of theory such as key and time signatures, intervals, simple chord construction, and the basics of four-part writing. This is the first course in the traditional college-level music theory sequence. No previous musical experience or knowledge is required. Concurrent enrollment in MUSIC 120 is strongly recommended.

112 (5) Music Theory II GER-HM

Prereq: MUSIC 110 or the equivalent

A music theory course designed to strengthen music literacy skills and to facilitate an understanding of intermediate principles regarding chords, chord progressions, figured bass, four-part writing skills, melody, and related ear-training skills. It is the second course in the traditional college-level music theory course. Concurrent enrollment in MUSIC 121 or the equivalent is strongly recommended.

114 (5) Music Theory III GER-HM

Prereq: MUSIC 112 or the equivalent

Strengthens music literacy skills and facilitates an understanding of more advanced principles regarding chords, chord progressions, figured-bass, melody, part-writing, and related ear-training skills. This is the third course in the traditional college-level music theory sequence. Concurrent enrollment in MUSIC 122 or the equivalent is strongly recommended.

120 (1) Beginning Class Piano

GER-HM/Performance

Basic introduction to playing the piano by establishing good reading habits and rhythmic orientation. Building a strong technical background and learning basic fundamentals of music theory.

121 (1) Intermediate Class Piano

GER-HM/Performance

Prereq: MUSIC 120 or instructor permission

A continuation of MUSIC 120 by establishing better reading habits and rhythmic orientation. Building a stronger technical background and learning more fundamentals of music theory.

122 (1) Advanced Class Piano

GER-HM/Performance

Prereq: MUSIC 121 or instr. permission

To increase music reading ability and keyboard technical skills. Prepare students for the piano proficiency test required for a music degree in a four year institution.

126 (1) Beginning Class Guitar

GER-HM/Performance

A performance course designed for the beginning guitarist. No prior experience expected. Students must furnish their own guitar.

127 (1) Intermediate Class Guitar

GER-HM/Performance

Prereq: MUSIC 126: Beginning Class Guitar (or equivalent)

A performance course designed for the intermediate guitarist. MUSIC 126 (Beginning Class Guitar) or the equivalent required. Students must furnish their own guitar.

130/230 ABCD (0.5) Private Instruction: Arranging

GER-HM/Performance

Prereq: MUSIC 114

An individual instruction course geared towards advancing beginning levels of arranging.

131/231 (0.5) Private Instruction: Improvisation

GER-HM/Performance

Prereq: MUSIC 114 or department permission

An individual instruction course geared towards advancing all levels of student music performance in improvisation.

132-138/232-238 ABCD

(0.5) Private Instruction:

Improvisation, Brass, Woodwinds, Percussions, Voice, Orchestral Strings, Keyboard and Plectrum Strings

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in improvisation, brass, woodwinds, percussion, voice, orchestral strings, keyboard, and plectrum strings.

139/239 (0.5) Private Instruction: Midi Sequencing and Notation Software

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music skills in notational software and midi sequencing.

140/240 ABC (2) College Choir

GER-HM/Performance

A non-auditioned vocal performance group that provides an opportunity to rehearse and perform choral literature. Quarterly concerts required. Non-music major participation encouraged.

144/244 ABC (2.5) Concert Choir

GER-HM/Performance

An non-auditioned vocal performance group geared towards providing the experienced singer with an opportunity to rehearse and perform choral literature. Quarterly concerts a requirement. Non-music major participation encouraged.

145/245 ABCD (2.5) Jazz Choir

GER-HM/Performance

Prereq: Department permission
Performance, selection and evaluation of vocal jazz/pop music. Performances required.

146/246 ABC (2.5) Vocal Jazz

Lab GER-HM/Performance

Prereq: Audition Required

A medium-size vocal jazz performing group established to provide the experienced vocalist and instrumentalist with an opportunity to rehearse and perform jazz literature. Non-Music Major participation is encouraged.

150/250 ABCD (1) College Band

GER-HM/Performance

A large performance group open to all students with experience in reading and performing instrumental band literature. Non-music major participation encouraged

157/257 ABCD (1, 1.5, or 2) Jazz Band

GER-HM/Performance

A jazz instrumental performing group established to provide the experienced instrumentalist an opportunity to rehearse and perform selected jazz literature. Non-Music major participation encouraged.

170/270 ABCD (1) Brass

Ensemble GER-HM/Performance

A small performance group open to all students with experience in reading and performing brass ensemble literature (I.E. Brass Quartets). Outside performances required. Outside performances required. Student self-initiative is a vital component of success in this class.

171/271 ABCD (1) Woodwind**Ensemble GER-HM/Performance**

A small performance group open to all students with experience in reading and performing woodwind ensemble literature (I.E. Flute Trios, Woodwind Quintets). Student self-initiative is a vital component of success in this class.

172/272 ABCD (1) Percussion**Ensemble GER-HM/Performance**

A small performance group open to all students with experience in reading and performing percussion ensemble literature. Outside performances required. Student self-initiative is a vital component of success in this class.

173/273 ABCD (1) String**Ensemble GER-HM/Performance**

A small performance group open to all students with experience in reading and performing string ensemble literature (i.e., String Quartet). Outside performances required. Student self-initiative is a vital component of success in this class.

174/274 ABCD (1) Vocal**Ensemble GER-HM/Performance**

A small performance group open to all students with experience in reading and performing vocal ensemble literature (i.e., Madrigals). Outside performances required. Student self-initiative is a vital component of success in this class.

180 (2) Careers in Music

An examination of the music business system that includes songwriting, publishing, copyright, business affairs, the record industry, music in broadcasting and film, and career planning and development.

210 (5) Music Theory IV GER-HM**Prereq: MUSIC 114 or equivalent**

The purpose of this course is to enable students to acquire music literacy, theory, and related ear-training skills. MUSIC 210 is the fourth of six courses in the traditional music theory sequence at the college level. Piano skills equal to or above the intermediate level (MUSIC 121) are highly recommended.

212 (5) Music Theory V GER-HM**Prereq: MUSIC 210**

To strengthen music literacy skills, to facilitate an understanding of more advanced principles regarding chords, chord progressions, melody, and related ear-training skills. Fifth course in the traditional college-level music theory sequence. Designed for, but not limited to, the student intending to transfer to a four-year college or university as a music major. Piano skills equal to or above the intermediate level (MUSIC 121) are highly recommended.

214 (5) Music Theory VI GER-HM**Prereq: MUSIC 212**

The sixth of six in a series of courses designed to explore, both aurally and visually, advanced harmonic and related practices in classical music. Typically, this course is taken by students intending to transfer to a four-year institution as a music major or minor.

230 ABCD (0.5) Private Instruction: Arranging**See MUSIC 130/230.****231 (0.5) Improvisation Workshop****See MUSIC 131.****232-238 (0.5) Private Instruction: Improvisation, Brass, Woodwinds, Percussions, Voice, Orchestral Strings, Keyboard and Plectrum Strings****See MUSIC 132-138.****239 (0.5) Private Instruction: Midi Sequencing & Notation Software****See MUSIC 139.****240 (2) College Choir****See MUSIC 140.****244 (2.5) Concert Choir****See MUSIC 144.****See MUSIC 145.****245 (2.5) Jazz Choir****See MUSIC 145.****246 (2.5) Vocal Jazz Lab****See MUSIC 146.****250 (1) College Band****See MUSIC 150.****257 (1, 1.5 or 2) Jazz Band****See MUSIC 157.****270 (.5) Brass Ensemble****See MUSIC 170.****271 (.5) Woodwind Ensemble****See MUSIC 171.****272 (.5) Percussion Ensemble****See MUSIC 172****273 (.5) String Ensemble****See MUSIC 173.****274 (.5) Vocal Ensemble****See MUSIC 174.****■ NATURAL SCIENCE (NSCI)****150 (5) Nature GER-NS**

The emphasis of the course (which varies with the instructor) is to identify the major life forms around the PNW including native and introduced species, and their adaptations to the environment. The course's study will enhance one's scientific, and personal enjoyment of the observation of nature for the recreational or professional naturalist. Includes lab and field studies..

160 (5) Environmental Biology**GER-NS****Prereq: High school biology or instructor permission**

Interrelationship of humans, animals, plants, soil, water, and air. Application to contemporary environmental problems. Field trips with lab work included.

■ NURSING (NURS)**112 (3) Fundamentals of Nursing Clinical Practice****Prereq: Admission to the Associate Degree Nursing program****Total Clock Hours: 80 (20 - lab & 60 - clinical)**

Application of basic nursing skills, in the classroom laboratory and clinical setting, while assuming responsibility for adult clients with common alterations in health. Includes roles and responsibilities of the nurse, nursing theory, critical thinking, the nursing process, and introduction to related technology. Concepts of the Roy Adaptation Model are used to guide developing nursing practice.

121 (4) Introduction to Medical-Surgical/Psychiatric Nursing**Prereq: HSCI 114, HSCI 116, NURS 111 & 112****Total Clock Hours: 40 (theory)**

Introduction to basic medical concepts in nursing practice, according to the Roy Adaptation Model Physiological Mode. Students will practice and demonstrate use of the nursing process in order to care for individuals experiencing disorders of the musculoskeletal, integumentary, sensory, and gastrointestinal systems. Roy's Role Function Mode will be explored in order to understand introductory concepts in Psychiatric Nursing.

122 (5) Introduction to Nursing Clinical Practice**Prereq: HSCI 114, HSCI 116, NURS 111 & 112****Total Clock Hours: 140 (20 - lab, 30 - service-connected learning & 90 - clinical)**

Application of basic nursing skills, in the classroom laboratory and clinical setting, while assuming responsibility for clients throughout the lifespan. Includes roles and responsibilities of the nurse, nursing theory, critical thinking, the nursing process, and introduction to related technology. The introduction to medication administration will also be covered. Concepts of the Roy Adaptation Model are used to guide developing nursing practice to individuals in the community, in a variety of settings.

125 (3) Family Centered Nursing Care**Prereq: HSCI 114, HSCI 116, NURS 111 & 112****Total Clock Hours: 30 (theory)**

Introduction to basic medical concepts in family-centered nursing care, according to the Roy Adaptation Model Physiological and Role Function Modes. The principles necessary for the care of clients in a variety of settings throughout the lifespan is explored, focusing on care of the well mother and child and pediatric clients. Course also includes death and dying at different life stages and caring for geriatric clients within the community.

130 (6) Intermediate Medical-Surgical/Psychiatric Nursing**Prereq: HSCI 114, HSCI 116, NURS 111, NURS 112, NURS 121, NURS 122, NURS 125****Total Clock Hours: 60 (theory)**

Intermediate medical concepts in medical-surgical/psychiatric nursing practice, according to the Roy Adaptation Model. Students will practice and demonstrate use of the nursing process in order to care for individuals experiencing disorders of the hematologic, urinary, and endocrine systems, with special attention to the peri-operative client. Roy's Self-Concept Mode will be explored.

132 (6) Intermediate Nursing Clinical Practice**Prereq: HSCI 114, HSCI 116, NURS 111, NURS 112, NURS 121, NURS 122, NURS 125****Total Clock Hours: 180 (30 service-connected learning & 150 clinical)**

Application of intermediate nursing skills, in the classroom laboratory and clinical setting, while assuming responsibility for adult clients with common alterations in health. Includes roles and responsibilities of the nurse, nursing theory, critical thinking, the nursing process, and introduction to related technology. Methods of safe medication administration will be practiced. Concepts of the Roy Adaptation Model are used to guide developing nursing practice to individuals in the community in a variety of settings.

210 (4) Advanced Topics in Nursing I**Prereq: Year 1 of nursing program, or Current LPN License****Total Clock Hours: 40 (theory)**

Advanced medical concepts in medical-surgical/psychiatric nursing practice, according to the Roy Adaptation Model Physiological Mode. Students will practice and demonstrate use of the nursing process in order to care for individuals experiencing disorders of the respiratory, cardiovascular, and neurological systems, with special attention to fluid and electrolyte/acid-base balance. Roy's Interdependence Mode will be explored.

211 (6) Advanced Nursing Clinical Practice**Prereq: Year 1 of nursing program, or Current LPN License****Total Clock Hours: 180 (30 - service-connected learning & 150 - clinical)**

Application of advanced nursing skills, in the classroom laboratory and clinical setting, while assuming responsibility for adult clients with common alterations in health. Students will also provide care for obstetric clients in a variety of birthing environments. Includes roles and responsibilities of the nurse (including methods of safe medication administration), nursing theory, critical thinking, the nursing process, and understanding related technology. Concepts of the Roy Adaptation Model are used to guide developing nursing practice to individuals in the community, in a variety of settings.

214 (3) Advanced Concepts in Family Centered Nursing Care**Prereq: Year 1 of nursing program, or Current LPN License****Total Clock Hours: 30 (theory)**

Advanced medical concepts in nursing practice, according to the Roy Adaptation Model Physiological and Psychosocial Modes. The principles necessary for the care of clients in a variety of settings throughout the lifespan will be explored, focusing on care of the complex pediatric and obstetric client, to include reproductive health.

217 (1) Practical Nurse Preparation Seminar (Optional)**Prereq: Year 1 of nursing program****Total Clock Hours: 10 (theory)**

The study of nursing law, ethics and the practical nurse role. Employment-seeking strategies and guidance on NCLEX (national licensure exam) preparation are included. Required for the student desiring to take the NCLEX exam to become a licensed practical nurse.

218 (1) ADN Articulation Seminar (Bridge Students only)**Prereq: Acceptance into Bridge, or Second Year of ADN Program****Total Clock Hours: 20 (lab)**

Articulation course for Bridge Students. Reviews nursing concepts taught in the first year of the nursing program with a focus on performance of practical nursing skills in simulated skills lab. Examines essential components of the Nursing Process according to the Roy Adaptation Model.

222 (5) Professional Nursing Clinical Practice

Prereq: NURS 210, 211 & 214

Total Clock Hours: 150 (30 – service-connected learning & 120 – clinical)
Application of advanced nursing skills, in the classroom laboratory and a variety of clinical settings, while assuming responsibility for adult clients with common alterations in health. Includes roles and responsibilities of the nurse (including methods of safe medication administration), nursing theory, critical thinking, the nursing process, and understanding related technology. Concepts of the Roy Adaptation Model are used to guide nursing practice in a variety of community settings.

223 (3) Advanced Psychiatric Nursing

Prereq: NURS 210, NURS 211, NURS 214

Total Clock Hours: 30 (theory)

Nursing theory and professional care for clients diagnosed with a mental illness. Explore legal, ethical and cultural issues pertaining to caring for this special population, utilizing the Roy Adaptation Model as a guide.

224 (3) Professional Role Transition

Prereq: NURS 210, NURS 211, NURS 214

Total Clock Hours: 30 (theory)

Synthesis of advanced nursing concepts in nursing practice, according to the Roy Adaptation Model Physiological and Psychosocial Modes. Nursing law, ethical responsibilities and cultural awareness will be explored. Basic leadership skills in working with groups and critical thinking strategies are emphasized, with a focus on self-care to optimize professional performance. The service-connected learning project will culminate in a student teaching project at the end of the quarter.

230 (3) Advanced Topics in Nursing II

Prereq: NURS 210, NURS 211, NURS 214, NURS 222, NURS 223, NURS 224

Total Clock Hours: 30 (theory)

Advanced medical concepts in medical-surgical/psychiatric nursing practice, according to the Roy Adaptation Model Physiological Mode. Students will practice and demonstrate use of the nursing process in order to care for individuals experiencing advanced medical and psychological disorders in the acute care setting. Special focus is on nursing in critical care, telemetry, oncology, neonatal intensive care unit, and emergency departments as well as other specialized settings. Nursing during a catastrophic event is also discussed.

233 (8) Acute Care Nursing Practicum

Prereq: NURS 210, NURS 211, NURS 214, NURS 222, NURS 223, NURS 224

Total Clock Hours: 230 (20 – lab, 60 – clinical, & 150 – preceptorship)

Clinical nursing practice in an acute care setting where students apply theory attained in all previous courses. Focus is on transition to the RN role. Concepts of the Roy Adaptation Model are used to guide developing nursing practice to individuals in the community, in a variety of settings, during a preceptorship assignment. At the end of the course, students will also be expected to complete an NCLEX-RN prep course, and achieve a passing score on a comprehensive NCLEX-RN predictive examination.

■ OCCUPATIONAL SAFETY & HEALTH (OSH)**100 (5) Introduction to Occupational Safety & Health**

Overview of occupational safety and health, including introduction to regulatory agencies, financial and human impact of occupational injuries/illnesses, and workers compensation. Covers basic safety terminology and how to access safety information and resources. Focuses on the role of responsibility of the Safety and Health employee.

110 ((5) Safety Management

Concepts and measurements of reactive versus proactive safety practices. Students will learn the major on-the-job hazards in the workplace, and how to collect and evaluate data to identify safety and health trends. Students will also learn how to respond to safety data gathered, by developing site-specific programs, policies, and procedures.

140 (3) Regulatory Environment

Introduction to regulatory bodies and overview to Occupation Safety and Health Agency (OSHA), Washington Industrial Safety and Health Act (WISHA), Environmental Protection Agency (EPA), Department of Transportation (DOT), Mine Safety and Health Administration (MSHA) regulations. History and political evolution of the regulatory environment; how violations are penalized, and how a regulatory agency performs a formal inspection.

150 (3) Workers Compensation & Risk Management

Overview of risk manager role and current analysis methods. History and evolution of the workers compensation system, the Access and Disabilities Act (ADA), Family and Medical Leave Act (FMLA), and Washington State Disability Act will be explored. Covers business insurance and claims process, transfer/assumption/assessment of risk, and lines of insurance.

160 (3) Incident Investigation

This course covers methods and documentation required for incident investigation. Overview of supervisor role in incident investigation, methods of review, action, and follow up to prevent recurrence. Includes overview of record-keeping system.

170 (5) Training Techniques

Overview of different learning styles, and effective methods for providing training to employees. Advantages and disadvantages of different training medias and associated costs. Opportunities to provide training to other class members on selected safety topics and use different training methodologies.

190 (3) Industrial Security

Overview of the All Hazards Approach to industrial security. Site-specific vulnerability assessments, development of Emergency Action Plans, loss prevention, industrial security, history of terrorism/terrorist threats, workplace violence the National Incident Management System (NIMS) will be introduced.

220 (3) Industrial Hygiene

Basics of industrial hygiene programs and relationship to company safety plan. Addresses chemical absorption into the body, physical/airborne hazards; sampling techniques; how to identify/apply hazard control techniques; and using Material Safety Data Sheet (MSDS).

230 (3) Ergonomics

Overview of the history and evolution of ergonomics in the workplace. Ergonomic risk factors, terminology, engineering solutions, applications of the principles of body mechanics, and communication of basic ergonomic concepts and solutions.

240 (4) Handling Hazardous Materials

Overview of regulations on hazard recognition, protective equipment, biological/radiological toxicology, monitoring decontamination. Includes 40 hours of OSHA required safety training/certification for workers/supervisors. This “hands-on” course covers all regulations. Site simulations are conducted.

■ OCEANOGRAPHY (OCEAN)**101 (5) Introduction to Oceanography GER-NS**

An introduction to physical, chemical, geological and biological processes in the ocean through classroom, lab and field experience. Lab included.

170 (5) Marine Biology GER-NS

Prereq: BIOL 101 or OCEAN 101 recommended
Introduction to the plant and animal life in the sea. Includes adaptations, behavior, habitats, diseases, interrelationships, and identification of marine organisms. A laboratory course with field trips during some lab periods.

286 (5) Coral Reefs

Prereq: OCEAN 101

The study of coral reefs including oceanic, biologic, and environmental processes. Lab included.

■ OFFICE TECHNOLOGY (OFFICE)

See *BUSINESS INFORMATION TECHNOLOGY (BTECH)*.

■ PARAEUCATION (PARED)

Courses offered through Extended Learning at off-campus sites.

101 (3) Conflict Resolution in a K-12 School System

Methods of resolving conflicts will be presented, including active listening skills.

110 (2) Issues, Roles & Responsibilities of the Paraeducator

Address the roles and responsibilities of paraeducators in the instructional setting. Current issues, including supervision, guidelines, role clarification, federal and state legislation, job responsibilities, ethics, professionalism, and confidentiality will be covered with special attention given to federal mandates.

115 (1) Orientation to Paraeducation Apprenticeship

This course will serve as an introduction to the purpose and responsibilities of the participants in the apprenticeship program.

116 (1) Student Records & the Law

This course provides an overview of school district policies and procedures for student records, student attendance, and record retention requirements.

117 (1) Test Administration & Scoring

Prereq: Instructional Assistant Apprenticeship Program

Course is designed to provide instructional assistants with proper testing administration skills for standardized testing.

130 (3) Classroom & Behavior Management

An introduction to the management of children's behavior in the classroom. Explores a variety of approaches used to maintain order in the classroom.

140 (3) Legal, Health & Safety Issues

Overview of legal, health, and safety issues in public schools, including Public Law 504, HIV/AIDS privacy issues, and documentation.

210 (3) Observation, Assessment & Record Keeping

Techniques in observation, test administration, and record keeping in the public school. Ethical consideration and legal responsibilities included.

215 (5) Introduction to Exceptional Students

(same as EDUC 215)

Introduction to programs for exceptional students. Includes federal guidelines, assessment requirements and procedures, and models of service delivery.

■ PARALEGAL STUDIES (LEGAL)**160 (3) Career Orientation & Ethics**

Prereq: Enrollment in, or permission of the Director of the Paralegal Studies program
Survey of occupations in law available to non-lawyers and review of professional ethics applicable thereto.

161 (2) Paralegal Workplace

Prereq: Enrollment in, or permission of the Director of the Paralegal Studies program.
Practical considerations in obtaining and maintaining work as a paralegal.

260 (5) Administrative Law

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program.
Nature and functions of administrative agencies and basic concepts of administrative law; techniques for obtaining information and preparing documentation necessary to initiate and maintain actions before and on behalf of administrative agencies.

262 (5) Criminal Procedure

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program. Basic criminal law concepts and techniques for obtaining and organizing information and preparing documentation necessary to initiate, maintain, and defend against criminal prosecutions.

263 (5) Environmental Law

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program. Basic concepts of environmental law and techniques for obtaining information, and preparing documents, necessary to maintain actions pertaining to environmental regulations.

264 (5) Torts

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program. Basic concepts of tort laws and techniques for obtaining information and preparing documents necessary to maintain and defend against tort actions.

265 (5) Civil Litigation

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program. Paralegal skills in all areas of civil litigation, including client and witness interviews, pleading preparation, trial investigation and appeal procedures.

266 (5) Estate Planning & Probate

Prereq: Enrollment in, or permission of, the Coordinator of the Paralegal Studies program. Estate planning concepts, preparation of estate planning documents, and handling probates.

267 (5) Research & Writing

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program. Introduction to legal research and writing. Emphasizes development of the knowledge and skills necessary to create basic legal research strategies, perform the related research, and communicate the findings in memoranda and briefs.

268 (5) Real Estate Transactions

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program. Principles of real property substantive law; preparation of various documents pertaining to the transfer of real property, including techniques for gathering necessary information; and overview of litigation involving real property interests and leases.

269 (5) Domestic Relations

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program. Basic concepts of domestic relations law, review of agencies operating in the domestic relations area, and techniques for obtaining information and preparing documentation necessary to expedite dissolution and adoption proceedings.

270 (5) Business Organizations

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program. The nature of business organizations, analysis of law pertaining to business organizations, and preparation of documents required to create, maintain, and terminate business organizations.

271 (5) Bankruptcy & Collections

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program.

Characteristics of, and application for, Federal and State debtor-creditor proceedings, encompassing bankruptcy, judgments, and liens.

273 (5) Legal Interviewing & Investigation

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program.

Preliminary case evaluation, strategies, and techniques for interviewing clients and witnesses and investigating cases, and preparation of an analytical evidentiary report.

275 (5) Alternative Dispute Resolution

Prereq: Enrollment in, or permission of the Coordinator of the Paralegal Studies program.

Nature and mechanics of, and law and typical rules pertaining to, major alternative dispute resolution approaches; techniques for obtaining and organizing information and preparing documentation for submission of matters to alternative dispute resolution.

276 (5) Employment Law

Prereq: Enrollment, or permission of the Coordinator of the Paralegal Studies program

Overview of major common law, statutory, and regulatory concepts governing the employment relationship, and development of skills supporting legal actions pertaining to that relationship.

280-282 (2) Paralegal Internship

Prereq: Minimum GPA of 3.0 and completion of at least three legal specialty electives.

Provides students with the opportunity, prior to completion of an Associate in Paralegal Studies degree, to gain experience as an intern in a private law firm or the legal department of a corporation or government agency.

PHILOSOPHY (PHIL)**100 (5) Introduction to Philosophy GER-HM**

Humanities— perennial problems concerning the individual and his/her pursuits; the physical world; and the social, political and/or religious experiences of human beings. Alternative methods, theories, and solutions explored.

110 (5) Introduction to Bioethics GER-HM

An introduction to the major ethical issues concerning genetics, biotechnology and modern medicine, including stem cells, cloning, designer babies, genetically modified plants and foods, gene patents, genetic tests, and gene therapy.

120 (5) Introduction to Logic

GER-QS,NS

Prereq: MATH 095 or 098 or equivalent or placement test score above MATH 098.

Elementary symbolic logic. Analysis of deductive arguments and definitions of such logical concepts as implication, validity and consistency. The relationship of logical symbolism to language.

150 (5) Introduction to Ethics

GER-HM

Studies personal and social moral concerns; examines approaches toward meaningful and valuable conduct; emphasizes current moral issues. Typical analysis of the distinction between good and evil, right and wrong; examines the appeals to custom, theology, reason, human nature and happiness as standards for solution to moral problems.

155 (5) Ethics in Business

Examines ethical issues in the world of business from employees, corporations, and institutions to consumers, government agencies, resources and ecological considerations.

210 (5) Philosophy of Western Religion GER-HM

An introduction to the theoretical orientations, central concepts, basic problems, and classical arguments of western philosophy of religion.

230 (5) Contemporary Moral Problems GER-HM

Examines major moral issues modern society currently faces. For example: abortion, euthanasia, war, sexual morality, discrimination, capital punishment, and nuclear deterrence.

PHYSICAL EDUCATION (PE)**104 (1) Beginning Golf**

Instruction and practice in the fundamentals of grip, stance, swing, use of the various clubs, rules, scoring, and the etiquette of the game of golf. Some class sessions held at the driving range in addition to actual course play.

105 (1) Intermediate Golf

A sequence course designed to develop more advanced golf skills learned primarily through actual play on the golf course.

108 (1) Beginning Tennis

Service, forehand ground strokes, backhand ground strokes, beginning net play, singles strategy.

109 (1) Intermediate Tennis

A sequence course designed to develop intermediate tennis skills involving ground stroke vs. volley techniques, intermediate serves, doubles play and intra-class competition.

119 (1) Cycling

An introduction to cycling, (both road & mountain bike), designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

125 (1) Lifestyle Fitness

An exercise class designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition. Students achieve this goal by utilizing the varied fitness resources available in the fitness facility and pool as well as walking, running, inline skating and cycling in and around the natural environment of Pierce College.

131 (1) Body Conditioning

A self-paced and independent fitness program designed and monitored during class seminars that improves cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition using both aerobic and anaerobic exercises.

132 (1) Jogging

Progressive running program to improve cardio-vascular endurance and to build stamina important in performing every day skills and activities, as well as fat percentage and improve overall health.

133 (1) Beginning Aerobics

An introduction to step aerobic exercise designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

134 (1) Intermediate Aerobics

An intermediate class in step aerobic exercise designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

135 (1) Advanced Aerobics

An advanced class in step aerobic exercise designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

137 (1) Aqua Aerobics

Exercise in the pool using the resistance of the water to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

138 (1) Intermediate Aqua Aerobics

Intermediate level exercise in the pool using the resistance of the water to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

150 (1) Swing Dance

Beginning swing dance skills designed to improve cardiovascular endurance, self esteem, social confidence and motor skills.

153 (1) Beginning Salsa

Beginning Salsa dance skills designed to improve cardiovascular endurance, self esteem, social confidence and motor skills.

154 (1) Intermediate Salsa

Prereq: PE 153 or instructor permission

Intermediate Salsa dance skills designed to introduce more challenging dance combinations, individual footwork technique, and the foundational elements Latin styling while improving cardiovascular endurance, self esteem, social confidence and motor skills.

156 (1) Latin Dance Styling & Choreography for the Follow

Styling and choreography skills for the Latin dance "follow." This course is designed to improve the dancer's presentation, footwork and general style while performing various Latin dances as well as improving cardiovascular endurance, self esteem, social confidence and motor skills.

164 (1) Basic Basketball Skills

Instruction and practice in the basic performance skills of shooting, passing, dribbling, footwork, rebounding, defense, and the coordination of individual offensive and defensive techniques into play patterns.

165 (1) Advanced Basketball Skills

Instruction and practice in the application of individual offensive and defensive skills into team basketball. Emphasis on man defense and attack including fast break. Course progresses from two-vs-two and three-vs-three to the five man game.

190-192 (1) Independent Fitness Activities

An independent physical activity course designed to meet the needs and interest of students who are unable to participate in any of the structured physical education courses offered at Pierce College.

228 (2) Standard First Aid & CPR

Training and certification, (including adult, child and infant CPR and first aid), in cardiopulmonary resuscitation and immediate care for victims of injuries or sudden illness.

PHYSICAL SCIENCE (PS)**101 (5) Introduction to Physical Science GER-NS**

Prereq: High School algebra or MATH 060 with a grade of at least 2.0 or instructor permission. An introductory course for non-science majors covering the concepts of physics, chemistry, earth science, and astronomy. Lab included.

PHYSICS (PHYS)**101 (5) Survey of Physics GER-NS**

Prereq: High school algebra or MATH 060 with a grade of at least 2.0 or instructor permission. A survey course for non-science majors that develops an awareness and appreciation of the physical environment by looking at everyday experiences and relating them to the principles and laws in physics. Lab included.

111 (2) Preparation for General Physics

Prereq: MATH 098 with a grade of 3.0 or better or MATH 121 with a grade of 2.0 or better or instructor permission.

An introductory course to prepare students for General Physics, including scientific notation, conversion factors, solution of physics equations, units and dimensions, and vectors.

114 (5) General Physics I GER-NS

Prereq: MATH 114 or MATH 122 or PHYS 111 with a grade of 2.0 or better or instructor permission.

An introductory algebra based course in mechanics including study of motion, force, work, energy, momentum, collision and rotational motion. Lab included.

115 (5) General Physics II GER-NS

Prereq: PHYS 114 with a grade of at least 2.0 An introductory algebra based course presenting the topics of heat, thermodynamics, waves, sound, light and optics. Lab included.

116 (5) General Physics III GER-NS

Prereq: PHYS 114 with a grade of at least 2.0 Physics course dealing with electricity and magnetism. Lab included.

120 (3) Data & Error Analysis in the Science Laboratory

Prereq: MATH 121 with a grade of at least 2.0 or instructor permission

Graphical and analytical techniques in data processing and error analysis for beginning students in science laboratories. Useful for students in any science dealing with exact methods of measurements such as chemistry, physics and geology.

121 (5) Physics for Science & Engineering, Part I GER-NS

Prereq: H.S. Physics or PHYS 114 with a grade of at least 2.0 and concurrent registration in or previous completion of MATH 125 or instructor permission

Calculus-based course in mechanics including motion, force, work, energy, momentum, torque, moment of inertia and equilibrium. Lab included.

122 (5) Physics for Science & Engineering, Part II GER-NS

Prereq: PHYS 121 and MATH 125 with grades of at least 2.0 in both

Calculus-based course dealing with the topics of fluid mechanics, heat, thermodynamics, waves, sound and light.

123 (5) Physics for Science & Engineering, Part III GER-NS

Prereq: PHYS 121 and MATH 125 with grades of at least 2.0 in both

Calculus-based course that studies electricity and magnetism. Lab included.

POLITICAL SCIENCE (POLS)**201 (5) Intro to Politics & Government GER-SS**

A comparative analysis of the various forms of government and politics in the world together with an introduction to the terms and concepts of political science.

202 (5) US Government & Politics GER-SS

A description and analysis of the institutions, processes, and ideas that make up the American political and governmental system.

203 (5) Introduction to International Relations GER-SS

Designed to develop the ability to identify the terms and concepts common to international relations; analyze the problems inherent in a multipolar, interdependent nation-state political system; and evaluate the ways in which the various global actors attempt to deal with these problems.

210 (5) United States Federal Indian Policy GER-SS

Prereq: ENGL 101, POLS 202, and placement at college level reading (or READ 101) or instructor permission

Course will examine the relationship between Native Americans and the U.S. government from a policy perspective. Specifically the politics, economics, geography, demographics, and social effects of the implementation of policy by the U.S. government towards Native Americans.

230 (5) State & Local Government

Politics and policy making at the state and local level in the United States federal system.

PSYCHOLOGY (PSYCH)**100 (3) Human Relations & Life Skills**

Assists to develop life skills and to implement personal achievement goals. Strong focus on self-development and goal setting.

102 (4) Career & Life Skills

Provides students with appropriate social, workplace, and problem solving skills necessary to research and identify a vocation that meets their personal and professional goals. Includes aptitude and interest testing, application strategies, and resume/cover letter development.

105 (1) Human Relations/ Human Values Seminar

Group experience designed to emphasize the affective domain of human growth. Focuses on varied aspects of people's emotions, feelings, values, and the relationship of these to intellectual pursuits and making life more meaningful.

106 (2) Human Relations Seminar

Small structured class designed to emphasize personal development skills necessary to adjust to life's circumstances in college survival, goal setting, time management, positive life attitude, communication skills, self-confidence and anxiety.

110 (5) General Psychology GER-SS

Scientific study of animal behavior and experience. Both biological and social basics of behavior are covered with emphasis on heredity, neurology, motivation, emotion, perception, cognition, learning and intelligence.

119 (2) Disabilities in Society

Prereq: Instructor permission Examines the rights and responsibilities of individuals with disabilities as guided by the Americans with Disabilities Act. Provides opportunities for leadership, self-advocacy, team-building and community maintenance skills.

140 (3) Job Search Strategy

Tools and techniques to prepare the student to obtain employment. Includes goal setting, vocational planning, job search information, completing labor market surveys, and interview techniques.

163 (3) Behavioral Psychology I

Offered through Extended Learning A study of behavioral techniques. Focus is on the techniques of increasing wanted behavior and decreasing unwanted behavior.

164 (3) Behavioral Psychology II

Offered through Extended Learning A study of behavioral techniques. Focus is on stimulus response chains and the process of natural consequences.

201 (5) Psychology of Personal Growth GER-SS

The study of personality, adjustment and the application of psychological principles to problems met by normal people in everyday life.

205 (5) Human Development GER-SS

Prereq: PSYCH 110 A lifespan study of human growth and development, providing a broad understanding of the human life cycle through contributions of psychology, anthropology, sociology, biology, and medicine.

210 (5) Social Psychology GER-SS

Prereq: PSYCH 110 A survey of the effects of social influence on an individual's thoughts and/or behaviors.

215 (5) Group Experience

Small group theory and practice applicable to working with both in-patient and out-patient agency settings. Designed to further develop the student's ability to lead counseling groups in the social service/mental health professions.

225 (5) Human Sexuality

(same as SOC 225) GER-SS Human sexual behavior covering the psychological, biological and sociological aspects of human sexuality.

230 (5) Intro to Personality GER-SS

Prereq: PSYCH 110 A survey of contemporary personality theory, assessment and change

235 (5) Abnormal Psychology GER-SS

Prereq: PSYCH 110 A study of the history, etiology, diagnosis and treatment of abnormal behavior.

270 (5) Theories of Counseling & Interviewing

Prereq: PSYCH 110 Theories, methods and techniques of counseling and interviewing.

READING (READ)**055 (3-4) Reading Development**

Designed to prepare students for college level reading through vocabulary development, identification of main ideas, and drawing inferences.

075 (3 or 5) Reading Tactics

Prereq: READ 055 or placement recommendation Reading Tactics focuses on refining reading comprehension methods, vocabulary development, and learning study skills necessary for success in college level courses.

101 (3-5) College Reading

Prereq: READ 075 or placement recommendation Designed to improve a student's critical reading skills, comprehension, vocabulary and speed needed for college reading.

102 (2) Speed Reading

Designed to improve reading speed while maintaining comprehension through the use of skimming and scanning techniques, and vocabulary building.

103 (2) Accelerated Reading

Focuses on a variety of techniques to increase reading speed.

REAL ESTATE (REAL)

Offered through Extended Learning

120 (3) Real Estate Purchase & Sale Agreements (Home Study)

Prereq: Real Estate License or Instructor/Advisor Permission.

A course for new licensees that primarily relates to preparation of the purchase and sale agreement, including the elements that will result in a binding legal document for each transaction. Meets requirements of RCW 18.85.095.(3)

125 (6) Washington Real Estate Fundamentals

Course is accepted for 60 clock hours prior to the application for state licensing examination (WAC 308-124H-035). Provides students with real estate vocabulary, concepts, laws, and information needed to successfully complete the examination.

135 (3) Principles of Appraising

Introductory course required for appraiser licensing and certification. The course will include the following: methods of assigning value, economic principles impacting appraisals, forms of ownership, appraisal tasks, principle of supply and demand, replacement and reproduction costs, depreciation, and the principles of sales comparison approach and the income capitalization approach. Course will also explore methods for resolving discrepancies between value indicators and will examine emerging issues in the appraisal of real property.

150 (3) Introduction to Real Estate Property Management

Prereq: R.E. license or instr. permission

Introduction to functions in residential property management, property analysis, vacancy and rental surveys, maintenance, rental and operating policies, tenant relationships, financial result analysis, and the Washington Landlord Tenant Act, RCW 59.18.

160 (3) Real Estate Practices

Prereq: Real Estate License

Explore agency relationships, listings and pricing techniques, in-depth analysis of the purchase and sale agreements, and methods of accurately estimating closing costs for buyer and seller. Property management, fair housing laws, and government considerations, environmental issues, and commercial real estate sales and leasing will also be covered.

205 (3) Real Estate Brokerage Management (Home Study)

Prereq: Real Estate License

Required prior to application for real estate broker's licensing examination. Practical administration of brokerage, including managerial functions, with special emphasis on budgeting, managing sales, advertising, sales training, and market analysis. Meets requirements of RCW 18.85.090, 18.85.140, 18.85.215, and WAC 308-124H-036.

210 (3) Real Estate Business Management

Prereq: Real Estate License

Course required prior to application for broker's licensing examination. Topics include: starting and financing a service-oriented business, developing a business plan, examining factors impacting the site selection process, designing an ergonomically-safe office, listing technology and communication equipment, preparing a marketing plan, summarizing the phases of fiscal management, and recruiting, hiring, and training office staff and affiliated licensees.

235 (3) Appraisal Procedures

Prereq: REAL 135 or instructor permission

Class meets the guidelines developed by the Appraisal Qualification Board for basic appraisal procedures. Students will apply the principles learned in "Principles of Appraising" by developing form reports, and also relating this same information to narrative reports. This course includes an overview of approaches to value; valuation procedures; property descriptions; and residential application. Newly adopted Fannie Mae forms will be used in this course.

260 (3 or 5) Real Estate Law

Prereq: Real Estate License

Required course for broker's licensing examination, introducing the legal system, forms of ownership, title and transfer theory, agency law and contract law. Course includes review of laws impacting the real estate industry.

RUSSIAN

See WORLD LANGUAGES.

SIGN LANGUAGE (SIGN)

See WORLD LANGUAGES.

SOCIAL SCIENCE (SOC)**210 (3) Student Leadership Development**

Prereq: Instructor permission

Experiences for campus student leaders, encompassing practice and leadership style.

SOCIAL SERVICE-MENTAL HEALTH (SS-MH)**100 (5) Introduction to Human Services**

An introduction to the social service field. To include ethics, job requirements, case management, referral systems, and current theories and issues in the field.

120 (5) Introduction to Correctional Mental Health

Prereq: Instructor permission

Introduction to correctional mental health including characteristics of mentally ill offenders; techniques for system/behavior management, impact of MIO's on staff and prison setting, and basic treatment planning.

121 (2) Basic Psychopharmacology in Mental Health

An introductory course designed to help human service workers understand the psychiatric uses of psychotropic medications in mental health. Includes discussion of side effects and interactions.

125 (4) Observation & Intervention Skills

(same as DD 125)

Offered through Extended Learning

Behavioral observation and recording techniques, report formats, interview styles, basic behavior management and referral techniques.

145 (3) Social Service Team Building

This course explores the range of organizations and institutions that interface within the social service network, and the relationships within that network. Methods to foster cooperation, collaboration, and teamwork among each of the players in the system is explored.

155 (3) Family Disruption

Exploration of the impact of disruption in the family when a child experiences losses, with emphasis on disruptions when a child is placed in foster care, residential treatment, or other alternative living or treatment arrangements. The dynamics of attachment, separation, loss, and grief are examined.

170 (5) Mental Health Interviewing & Assessment

Prereq: SSMH 100 or instructor permission;

SSMH 215 recommended

Introduction to helping skills and interpersonal communication as used in community mental health settings. Students will learn basic communications, interviewing, and assessment skills as used in community mental health settings.

185 (3) Identity & the Family

Exploration of the formation of identity, values, and self-concept in a family context. Personal family history as well as cultural and attitudinal factors are explored.

190 (3) Behavior Management in the Family

Explores theories of behavior management in the family. Emphasis is on learning to foster and create a positive climate, to prevent behavior problems and manage their impact when problems occur.

201 (5) Social Service-Mental Health Field Experience

Prereq: SSMH 100, 101, 170, 215 or instructor permission

202 (5) Social Service-Mental Health Field Experience

Prereq: SS-MH 201

203 (5) Social Service-Mental Health Field Experience

Prereq: SS-MH 202

A career-related work experience, under qualified supervision, enabling the student to apply professional/technical knowledge, values, and skills as preparation for employment in the social service-mental health field. Minimum of 120 hours field work plus mandatory seminar.

210 (3) Self-Care for Care Givers

This course helps the professional care provider master personal self-care techniques. The student will learn to identify and plan strategies to cope with the multiple stresses inherent when giving care.

215 (5) Law & Ethics in Social Services

This course explores the legal and ethical issues in social services. Includes: counselor regulation, confidentiality, client rights, involuntary commitment, rights and responsibilities of mental health professionals, mandatory reporting, child welfare, case law, and standards of conduct.

220 (1) Issues in Social Service-Mental Health**221 (2) Issues in Social Service-Mental Health**

Prereq: Instructor Permission

222 (3) Issues in Social Service-Mental Health

The study of variable issues within the context of the Social Service-Mental Health service environment.

230(3) Abuse in the Family

A course designed to familiarize students with problems of abuse in the family. Examines types of abuse, definitions, frequency, views of causation, as well as approaches to intervention and prevention.

SOCIOLOGY (SOC)**110 (5) Survey of Sociology**

GER-SS

Group life of people exploring, but not limited to, the scientific explanations of social phenomenon, diversity of cultures and social classes, Social institutions, and micro and macro explanations of peoples' social interactions.

211 (5) Marriage & the Home

GER-SS

Personal relationships, interaction and social influence as they relate to preparation for marriage, family living and family problems in modern society. Sociological perspectives and theories.

212 (5) Sociology of Death

GER-SS

A study of the meaning of death; the effects of death on the family; the rituals of death, dying and bereavement; the child and death; and rebuilding death disrupted systems.

220 (5) Gender Roles in Society

GER-SS

A study of how gender roles are developed in society from the sociological perspective. Dimensions examined include the process of socialization, family, and social relationships, implications for self-concept, and social opportunities. The historical and cross-cultural aspects are reviewed.

225 (5) Human Sexuality

(same as PSYCH 225) GER-SS

Human sexual behavior covering the psychological, biological and sociological aspects of human sexuality.

230 (5) Social Problems

GER-SS

A critical review of socio-culturally defined problems facing our world on a micro and macro level.

280 (5) Sociology of Social Work

A course designed to explore the field of social work from a sociological perspective.

284 (3) Supervised Field Study

Prereq: 10 credits in Sociology including SOC 110 and instructor permission.

A continuing experience designed to supplement the learning of theoretical material through participation in the activities of a service oriented organization in the community. 12 Hours field work per week.

285 (5) Supervised Field Study

Prereq: SOC 283

A continuing experience designed to supplement the learning of theoretical material through participation in the activities of a service oriented organization in the community. 12 Hours field work per week.

SPANISH

See *WORLD LANGUAGES*.

SPEECH (SPCH)**100 (5) Speech Communication**

GER-HM

An investigation into communication theory including verbal and non-verbal communication. Communication barriers and processes will be studied. The student will also make presentations before the class.

105 (5) Intercultural

Communication GER-HM

The examination of the effects of culture upon the process of communication. Using theory and skill development, students are prepared to communicate effectively both within and across cultures. The course gives students the opportunity to analyze their own, and others – intercultural communication through experiential and interviewing formats. The course emphasis includes the influence of culture on non-verbal communication, language, perception, intercultural relationship development, and intercultural conflict.

110 (5) Fundamentals of Public Speaking

GER-HM

A beginning course in public speaking emphasizing speech organization, audience analysis, speech delivery, speech writing. Frequent presentations before the class in which the student will be given the opportunity to explore his/her own speech capabilities.

115 (5) Small Group

Communication GER-HM

Understanding the principles and processes of oral communication within groups. The course uses theory with practice in participating in group presentations and meetings. The course will examine group presentation skills, group problem solving, critical listening, leadership, conflict management, group roles, and group development. The focus is to prepare the student for effective group communications at work, socially, and in the community.

210 (5) New Media Presentation

GER-HM

An interactive speech presentation class with an emphasis on digital media as an integral part of the presentation. Each presentation will focus on specific technology including video, audio, and computer presentation programs. The primary emphasis will be on training students to speak to groups successfully by integrating specific software and hardware into the presentation.

STUDY SKILLS (STUDY)**101 (2) Listening Skills**

Covers important listening skills for academic, business, and personal situations. Provides opportunities to improve listening skills through practice.

104 (2) Study Techniques I

Designed to teach methods and processes for success in college. Topics include learning style application, memory reading techniques, and time management skills.

105 (2) Study Techniques II

Introduces methods and processes for success in college. Topics include note-taking, test-taking, diversity, and critical thinking.

106 (3) Study Techniques III

Teaches methods and processes for success in college. Topics include writing, health and career planning

107 (2) Study Skills for Math & Science

Interactive class designed to support development of personal and academic skills for success in MATH and SCIENCE classes. Topics include dealing with math and science anxiety, self awareness of preferred learning styles, and confronting word problems, and making one's own study sessions more productive. Some sections may be program specific.

TECHNOLOGY (TECH)

Most technology classes are offered through Contracted Education and are not available at the Fort Steilacoom and Puyallup sites.

107 (3) Blueprint Reading

Provides instruction in blueprint reading. Emphasis on maintenance facilities, including, but not limited to: mechanical, electrical, structural and architectural drawings of various facilities.

108 (3) Defensive Driving Techniques & Radio Communications

Topics presented will be weather and road conditions, braking systems, safety equipment and its use, high speed driving rules, repairs, evacuation situations and procedures, preventive intervention techniques, FCC regulations, and emergency codes.

109 (4) Facility Maintenance

Provides instruction in handling hazardous chemicals, use of ladders, weather proofing, roof systems and care, fire extinguisher use and maintenance, power equipment maintenance, plumbing and sewage systems, electrical systems, heating, ventilation and cooling, energy management systems, boiler maintenance and operations, and blueprint reading.

113 (3) Fundamentals of Plumbing Maintenance

Introduction to plumbing maintenance, including Drain/Waste/Vent systems, rough-in and trim-out, and emergency repair techniques.

116 (3) Basic Electricity

An overview of electrical theory and application. Topics include parts of a circuit, basic electrical components, DC and AC sources, types of circuits, resistance, inductance, capacitance, three-phase, distribution, code, and schematics.

117 (3) Fundamentals of Construction Maintenance

Introduction to construction maintenance, including framing, trusses, interior and exterior siding, taping basics, and texturing operations.

118 (3) Fundamentals of Electrical Maintenance

Introduction to electrical maintenance, including switches and devices, code requirements and application of electrical maintenance.

119 (3) Fundamentals of Heating, Ventilation & Air Conditioning Maintenance

Introduction to preventive maintenance and repair of heating, ventilation and air-conditioning system.

121 (1-5) Handling Hazardous Materials

Provides instruction in handling hazardous materials. Includes required standards, types of chemical hazards, material safety data sheets, and identification of workplace hazards.

123 (2) Energy Management Systems

How to manage energy resources including electricity, natural gas, fuel oil, and water. Learn the difference between energy management and energy conservation. An examination of heating ventilation and air conditioning systems and their associated controls. Students will learn how to do an energy audit on a building.

124 (3) Survey, Construction and Blueprint Reading

A survey of orthographic drafting, drafting conventions, scales, street and utility plan presentations and conventions, datums, elevations, sections, and descriptions and staking conventions.

125 (2) Emergency Response Team: Search & Rescue

Overview of basic skills needed to respond to their community's immediate needs in the aftermath of a major disaster, when emergency services are not immediately available.

126 (3) Introduction to Power Equipment

Includes safety programs, proper use of power tools, preventive and corrective maintenance, and simple repairs.

135 (4) Potable Water Applied Problems

Prereq: Apprenticeship Program, Tacoma Public Utilities, Water Division

Application of mathematical principles to potable water problems.

138 (4) Water Distribution

Survey course in water distribution system history, types, local, state and federal regulations, operating, and maintenance procedures.

139 (4) Water Quality

A basic survey course in water quality including characteristics, criteria and standards, treatment processes and water quality system monitoring.

140 (2) Basic Computer Applications

Learn the basic operations of personal computer systems, specific applications of Tacoma Public Utilities' database programs and their application to Tacoma Public Utilities.

141 (5) Basic Water Hydraulics, Pumps & Pumping Systems

Prereq: Permission of City Tacoma – Water Division Apprenticeship Committee

Overview of water hydraulics and their application to water transmission systems. Course will also include information on basic pump theory and practices.

THEATER (THTR)**150 (5) Introduction to the Theater Arts**

GER-HM

Overview of theater aspects: dramatic literature, theater history, scene design, stage lighting, styles of acting and directing, and play discussions.

160 (5) Introduction to Film & Video

GER-HM

Introduction to and exploration of the world of movies (film History, film-making, techniques, and film direction). The social and economic influences of the American film will also be addressed..

165 (5) Digital Movie Making I

Introduction to film production as it relates to digital media. The emphasis will be on the creative process rather than the ever-changing technology. A five and ten-minute film will be required by the end of the course.

166 (5) Digital Movie Making II

Prereq: THTR 165 with a grade of 2.0 or better

Introduction to film production as it relates to digital media. The emphasis will be on the creative process rather than the ever-changing technology. A ten and thirty-minute film will be required by the end of the course.

167 (5) Digital Movie Making III

Prereq: THTR 166 with a grade of 2.0 or better

Introduction to film production as it relates to digital media. The emphasis will be on the creative process rather than the ever-changing technology. A fifteen and a sixty-minute film will be required by the end of the course.

170 (5) Technical Film & Theatre I

Introduction to behind the scenes activities of stagecraft/digital film: stage/digital film terminology, stage/digital film organization, tool familiarity, safety, and scenery construction.

171 (5) Technical Film & Theatre II

Behind the scenes training for stage and digital film with emphasis on stage and digital film design.

172 (5) Technical Film & Theatre III

Behind the scenes training for stage and digital film with emphasis on stage and digital film lighting.

255 (10) Shakespeare Festival (same as ENGL 250)

To familiarize the student with Shakespearean drama, elements of drama, and elements of the theater. Student must attend the Oregon Shakespeare Festival in Oregon.

260 (5) Acting for Stage & Digital Film I

GER-HM/Performance
Introduction to the methods employed in acting for the contemporary stage and digital film.

261 (5) Acting for Stage & Digital Film II

GER-HM/Performance
Acting for the stage and digital film with emphasis on movement and voice development.

262 (5) Acting for Stage & Digital Film III

GER-HM/Performance
Acting for the stage and digital film with emphasis on styles of acting.

280-285 (1-3) Production Practicum I – VI

GER-HM/Performance
Provides those involved in the creative/performance aspect of a Pierce College theatre/film production with credit for their effort. The class offers flexibility for students to participate in several different areas of a Pierce College theatre/film production.

■ VETERINARY TECHNOLOGY (VT)**100 (2) Introduction to Veterinary Technology**

Survey of the veterinary medical profession and the role of the technician within the profession. Outlines job opportunities, ethics and husbandry terms for various species including breed identification and basic nutrition.

101 (4) Animal Nursing I

Prereq: First year standing in the VT program
The handling and restraint of small animals in medical nursing. Administration of medication as related to nursing care of the hospitalized animal.

104 (4) Animal Nursing II

Prereq: First year standing in the VT program
Introduction to the preparation of the surgical patient, assisting the doctor in sterile surgery, pre and post-operative care of the patient, performing basic dental prophylaxis.

105 (3) Animal Nursing III

Prereq: First year standing in the VT program
Care and treatment of laboratory and exotic animals to include both research and private practice applications.

106 (3) Medical Terminology for Veterinary Technicians

Prereq: First year standing in the VT program
Fundamentals of medical terminology. Basic rules upon which the student will subsequently build a medical vocabulary are emphasized.

107 (2) Medical Dosage for Veterinary Technicians

Prereq: First year standing in the VT program
Medical Dosage is an individual study course designed to help the VT student develop an accurate method of dosage calculations and conversions.

110-112 (1) Ward Care Laboratory I-III

Prereq: First year standing in the VT program
Practical experience in daily animal care for professional, stable and ward facilities. This includes maintaining hospital patient records, cleaning and sanitizing holding facilities, supplying proper nutrition, handling post-surgical patients and treatments.

122 (5) Veterinary Clinical Pathology & Parasitology

Prereq: First year standing in the VT program
A lecture/laboratory course covering procedures needed for identifying internal and external parasites and blood parasites. Performing and interpreting urinalysis, conducting blood chemistry tests. Performing complete necropsy procedures, collecting tissue samples and perform other in-hospital diagnostic tests.

123 (3) Large Animal Nursing

Prereq: First year standing in the VT program
Lectures on large animal husbandry. Labs involve techniques and procedures in basic restraint and treatment of horses and farm animals.

125 (6) Animal Anatomy & Physiology

Prereq: First year standing in VT program
Study of animal body structure and function beginning with cellular components and including all major body systems.

215 (4) Animal Hospital & Office Procedures

Prereq: Second year standing in VT program
Lecture course to prepare students for their externships in animal hospitals and subsequent full-time positions. Areas covered include ethics, client communications, grief counseling and procedures commonly used in reception positions.

220 (4) Public Health & Sanitation

Prereq: Second year standing in VT program
Lectures on public health as it applies to veterinary medicine and the veterinary technician. Covers epidemiology, zoonosis, environmental public health including meat and food hygiene.

222 (4) Hematology for Veterinary Technicians

Prereq: Second year standing in VT program
Study of blood formation, including recognition of normal and abnormal blood cells from domestic and exotic animals, and accurate performance of the CBC.

223 (3) Applied Equine Techniques

Prereq: Second year standing in VT program
Advanced equine techniques commonly used in large animal practice, on breeding farms and at racetracks.

224 (4) Veterinary Clinical Laboratory Principles

Prereq: Second year standing in VT program
Advanced laboratory principles and techniques in hematology, urinalysis, cytology, bacteriology and parasitology.

230 (4) Anesthesiology & Intensive Care

Prereq: Second year standing in VT program
Practical laboratory techniques emphasizing proper use of anesthetic technique, intensive care and emergency procedures.

233 (14) Veterinary Clinical Practice (Externship)

Prereq: Second year standing in VT program
Practical field experience with weekly seminar.

240 (3) Animal Diseases

Prereq: Second year standing in VT program
Lecture course which covers the fundamentals of animal disease including etiology, nursing care and laboratory procedures which apply to the particular disease syndrome.

250 (2) Radiology for Veterinary Technicians

Prereq: Second year standing in VT program
A study of radiography with emphasis on basic machine structure, fundamental radiographic techniques, correct animal patient handling, and achieving technical quality. Includes both small animal and large animal techniques.

251 (3) Pharmacology for Veterinary Technicians

Prereq: Second year standing in VT program
An introduction to pharmacology in which various drugs are considered as they relate to physiological systems. Emphasis on pharmacodynamics, pharmacognosy, metrology, and posology rather than therapeutic aspects of pharmacology.

252 (4) Special Techniques and Projects

Prereq: Second year standing in VT program
Selected assignments covering all technical procedures learned in the Veterinary Technology Program.

■ WORLD LANGUAGES (formerly Foreign Language)**CHINESE (CHNSE)****101 (5) Elementary Chinese I**

GER-HM
The first quarter of a first-year sequential course to help the student acquire the ability to speak, read, and write Chinese.

102 (5) Elementary Chinese II

GER-HM
Prereq: CHNSE 101 or instr. permission
The second quarter of a first-year sequential course designed to help the student acquire the ability to speak, read, and write Chinese.

103 (5) Elementary Chinese III

GER-HM
Prereq: CHNSE 102 or instr. permission
The third quarter of a first-year sequential course designed to help the student acquire the ability to speak, read, and write Chinese.

FRENCH (FRNCH)**101 (5) Elementary French I**

GER-HM
The first quarter of a sequential beginning course in spoken and written French language.

102 (5) Elementary French II

GER-HM
Prereq: FRENCH 101 with a grade of 2.0 or better, or 1 year high school French plus placement in English 101 or instructor permission.
Continuation of FRENCH 101 stressing speaking, reading, writing, and understanding the French language.

103 (5) Elementary French III

GER-HM
Prereq: FRNCH 102 with a grade of 2.0 or better, or 2 years high school French plus placement in ENGL 101; or instr. permission.
Continuation of FRNCH 102 stressing speaking, reading, writing and understanding the French language.

201 (5) Intermediate French I

GER-HM
Prereq: FRNCH 103 or 3 years high school French or instructor permission.
Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of the French-speaking world. Specific cultural topics will vary at instructor's discretion.

202 (5) Intermediate French II

GER-HM
Prereq: FRNCH 201, 4 years high school French or instructor permission.
Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of the French-speaking world. Specific cultural topics will vary at instructor's discretion.

203 (5) Intermediate French III

GER-HM
Prereq: FRNCH 202, 5 years high school French or instructor permission.
Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of the French-speaking world. Specific cultural topics will vary at instructor's discretion.

GERMAN (GERMN)**101 (5) Elementary German I**

GER-HM
The first quarter of a first-year sequential course to give the student the ability to speak, read, write and understand the German language and culture.

102 (5) Elementary German II

GER-HM
Prereq: GERMN 101 with a grade of 2.0 or better, or 1 year H.S. German plus placement in ENGL 101; or instructor permission
Continuation of German 101 stressing speaking, reading, writing and understanding German.

103 (5) Elementary German III

GER-HM
Prereq: GERMN 102, 2 years high school German plus placement in ENGL 101 or instructor permission.
Continuation of GERMN 102 stressing speaking, reading and writing.

201 (5) Intermediate German I
GER-HM

Prereq: GERMN 103, 3 yrs H.S. German or instructor permission.

Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of Germans-speaking countries. Specific cultural topics will vary at instructor's discretion.

202 (5) Intermediate German II
GER-HM

Prereq: GERMN 201, 4 years of H.S. German or instructor permission

Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of Germans-speaking countries. Specific cultural topics will vary at instructor's discretion.

203 (5) Intermediate German III
GER-HM

Prereq: GERMN 203, 5 years of H.S. German or instructor permission

Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of Germans-speaking countries. Specific cultural topics will vary at instructor's discretion.

JAPANESE (JPNSE)**101 (5) Elementary Japanese I**
GER-HM

The first course of a first-year sequential course providing the student the ability to speak, read, write, and understand Japanese.

102 (5) Elementary Japanese II
GER-HM

Prereq: JPNSE 101, one year H.S. Japanese, or instructor permission

The second course of a first-year sequential course providing the student with the ability to speak, read, write, and understand Japanese.

103 (5) Elementary Japanese III
GER-HM

Prereq: JPNSE 102, two years of H.S. Japanese, or instructor permission

The third course of a first-year sequential course providing the student with the ability to speak, read, write, and understand Japanese.

KOREAN (KREAN)**101 (5) Elementary Korean I**
GER-HM

The first quarter of a first-year sequential course to give the student the ability to speak, read, write, and understand Korean.

102 (5) Elementary Korean II
GER-HM

Prereq: KREAN 101 or instr. permission

Continuation of KREAN 101 stressing speaking, reading, writing, and understanding the Korean language.

103 (5) Elementary Korean III
GER-HM

Prereq: KREAN 102 or instr. permission

Continuation of KREAN 102 stressing speaking, reading, writing, and understanding the Korean language.

201 (5) Intermediate Korean I
GER-HM

Prereq: KREAN 103 or instr. permission

The 1st quarter of a second-year Korean course stressing listening, speaking, reading, and writing.

202 (5) Intermediate Korean II
GER-HM

Prereq: KREAN 201 or instr. permission

The 2nd quarter of a second-year Korean course stressing listening, speaking, reading, and writing.

203 (5) Intermediate Korean III
GER-HM

Prereq: KREAN 202 or instr. permission

The 3rd quarter of the second-year Korean course stressing listening, speaking, reading and writing.

RUSSIAN (RUSSN)**101 (5) Elementary Russian I**
GER-HM

The first quarter sequential course to give the student the ability to speak, read, write and understand Russian.

102 (5) Elementary Russian II
GER-HM

Prereq: RUSSN 101, 1 year high school Russian or instructor permission

Continuation of Russian 101 stressing speaking, reading, writing and understanding.

103 (5) Elementary Russian III
GER-HM

Prereq: RUSSN 102, 2 years high school Russian or instructor permission

Continuation of Russian 102 stressing speaking, reading, writing and understanding.

201 (5) Intermediate Russian I
GER-HM

Prereq: RUSSN 103 or 3 years H.S. Russian or instructor permission

The first quarter of second-year Russian, stressing conversation, comprehension and writing.

202 (5) Intermediate Russian II
GER-HM

Prereq: RUSSN 201, 4 years H.S. Russian or instructor permission

Continuation of second-year Russian stressing Russian literature, conversation, and culture.

203 (5) Intermediate Russian III
GER-HM

Prereq: RUSSN 202, 5 years H.S. Russian or instructor permission

To improve skills in reading, writing, speaking, and comprehending the Russian language through Russian literature.

SIGN LANGUAGE (SIGN)**101 (5) American Sign Language I**
GER-HM

A beginning course in American Sign Language (ASL) using conversational methods. Includes basic grammar, finger-spelling, vocabulary and an introduction to the deaf culture.

102 (5) American Sign Language II
GER-HM

Prereq: SIGN 101 with grade of 2.0 or better; or one year HS equivalent or instr. permission
A continuation of American Sign Language I with an emphasis on grammar and developing stronger expressive and receptive skills. Includes an introduction to various types of numbers, use of classifiers, basic storytelling techniques and a broader cultural awareness.

103 (5) American Sign Language III
GER-HM

Prereq: SIGN 102 with a grade of 2.0 or better; or 2 years high school equivalent or instructor permission

A continuation of American Sign Language II with a focus on vocabulary development and storytelling techniques. Includes more advanced use of classifiers, and introduction to deaf expressions, additional grammatical features and a continued study of the deaf culture.

111 (1) Introduction to American Sign Language I

Offered through Extended Learning

Introductory course in beginning American Sign Language. Includes core vocabulary, numbers, parameters of a sign, non-manual Grammatical Markers, Non-manual Signals, pronouns, and finger spelling techniques.

112 (1) Introduction to American Sign Language II

Offered through Extended Learning

Prereq: SIGN 111 or permission of instructor
Continuation of SIGN 111 course content. Course will include additional core vocabulary and numbers, and will explore the different educational philosophies available for teaching deaf children. Students will be introduced to resources available to assist deaf children and adults.

201 (5) American Sign Language IV
GER-HM

Prereq: SIGN 103 with a grade of 2.0 or better; or 3 years HS equivalent; or instructor permission

Emphasis is placed on receptive and expressive skill development and ASL fluency. Attention is given to correct formation of signs movement, rhythm, phrasing and clarity. This course includes intensive vocabulary building, a deeper understanding of ASL expressions, and proficiency in ASL grammar.

SPANISH (SPAN)**101 (5) Elementary Spanish I**
GER-HM

A first-year sequential course to give the student the ability to speak, read, write and understand Spanish.

102 (5) Elementary Spanish II
GER-HM

Prereq: SPAN 101 grade of 2.0 or better, 1 year of H.S. Spanish plus placement in ENGL 101; or instructor permission

Second quarter of first-year Spanish stressing speaking, reading, writing and understanding Spanish.

103 (5) Elementary Spanish III
GER-HM

Prereq: SPAN 102 with a grade of 2.0 or better; or 2 years of H.S. Spanish plus placement in ENGL 101; or instructor permission

A continuation of first-year Spanish stressing speaking, writing, reading and understanding.

201 (5) Intermediate Spanish I
GER-HM

Prereq: SPAN 103 or 3 years high school Spanish or instructor permission

Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of the Spanish-speaking world. Specific cultural topics will vary at instructor's discretion.

202 (5) Intermediate Spanish II
GER-HM

Prereq: SPAN 201, 4 years H.S. Spanish or instructor permission

Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of the Spanish-speaking world. Specific cultural topics will vary at instructor's discretion.

203 (5) Intermediate Spanish III
GER-HM

Prereq: SPAN 202, 5 yrs. H.S. Spanish or instructor permission

Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of the Spanish-speaking world. Specific cultural topics will vary at instructor's discretion.

